

UNIVERSITY OF TORONTO

Bulletin

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University
Archives

MERRILEES
ON RESEARCH
Pages 10-11

NDP victory fosters hope

by Karina Dahlin

PRESIDENT Rob Prichard is "very optimistic" that premier-elect Bob Rae and his New Democratic Party government will work with universities to develop and implement useful policies. But like many other people, Prichard has adopted a wait-and-see attitude.

"The NDP platform made clear the party's commitment to education, but its specific views are not articulated," Prichard said Sept. 7, the day after Ontario voters dismissed the Liberal government of Premier David Peterson.

Rae graduated from U of T's Faculty of Law in 1977. "He has always maintained an interest in the University," Prichard noted. "He is a man of great intelligence and integrity and is greatly committed to social justice. I am optimistic that his values and attitudes won't change."

The president said U of T should offer the new government help in the formulation of its first Speech from the Throne. He also said he does not believe

NDP tax reform would make it harder for the University to raise money from the private sector.

"The risk to private giving is the general economic condition. I think Mr. Rae will be as concerned about that as any other premier would be."

Edward Monahan, executive director of the Council of Ontario Universities, said the election of an NDP government provides an opportunity for improvement. "The party has indicated it is very interested in education and says funding should be improved."

Although the NDP's campaign literature discussed elementary and secondary schools, not universities, Monahan said he is "an incurable optimist" and assumes the party supports all levels of education.

Too early

Professor Bill Graham of Scarborough College, president of the Ontario Confederation of University Faculty Associations, said it is too early to judge the

See VICTORY: PAGE 2

Land swap sought with city for co-op

by Jane Stirling

THE University is hoping to persuade the City of Toronto and a non-profit developer that a site on the northwest corner of the campus is preferable to a proposed location at 40 St. George St. for a cooperative housing project.

U of T wants Metta Housing Cooperative Inc. to build on Robert St., west of Spadina and south of Bloor, instead of on the site of the Boys' and Girls' Library beside the Koffler Student Serv-

ices Centre. The library site is owned by the Toronto Public Library Board.

In January Lantana Non-Profit Homes Corp., Metta's developer, obtained approval in principle from the city for a long-term lease on the St. George location. Metta plans to construct a 156-unit, 10-storey apartment building for students with families, some University staff and a few other low-income families.

U of T is opposed to the proposal. Gordon Cressy, vice-president (development and university relations), said U of T is concerned about the density and height of the development. On Aug. 31 the city's Committee of Adjustment approved a density increase of 28 percent and height increase of 54 percent.

"The project is not in keeping with the master plan for St. George St.," Cressy said. The development would make it difficult to "consolidate University ownership of the block."

By Sept. 12 U of T will decide whether to appeal the committee's decision to the Ontario Municipal Board, Cressy said.

Exchange

The University hopes to arrange a land-swap deal with the city. In exchange for 40 St. George, it would receive the Aura Lee playing field on Robert St. and would, in turn, lease the city land to Metta.

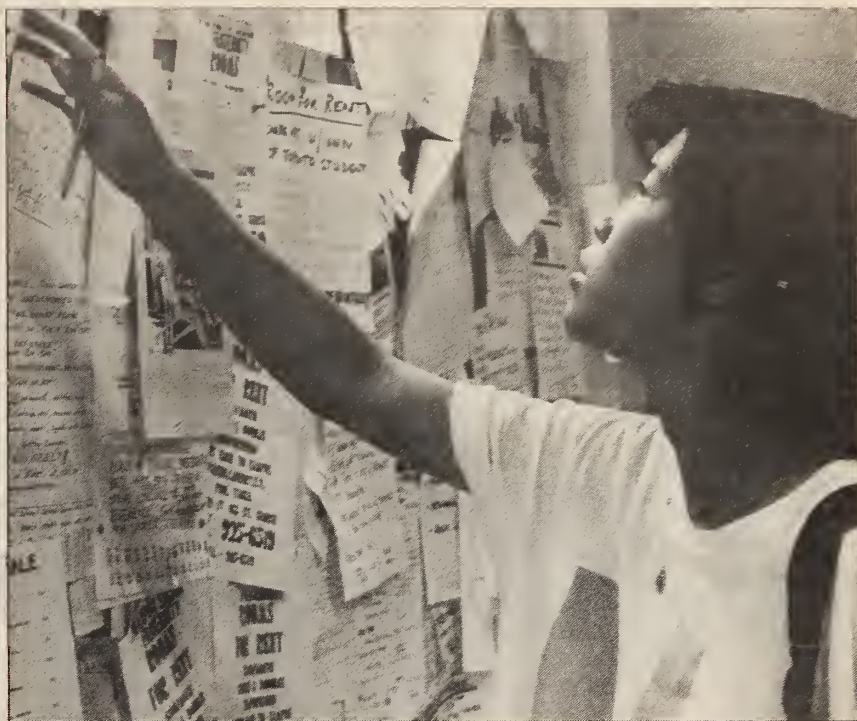
Michel Labbé, Lantana's development consultant, said 40 St. George St. is an attractive site for non-profit housing. However, "all things being equal" the Robert St. site would be preferable because of sidewalk access to residences.

Cressy said the Robert St. location offers better recreational facilities, better access to public transit and proximity to shopping. The property, which

See SWAP: PAGE 2

STARTING OUT

The faces of new and returning students as they arrive on campus.



Michelle Wang of University College studies notices of accommodation on the bulletin board at the Koffler Student Services Centre last week. Classes begin this week.



Engineering student David Vendramini (left) shares a joke with Martin Schuhmann during last week's orientation activities.



Alanna Cavanagh of Woodsworth College asks about an apartment.

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Victory fosters hope

Continued from Page 1

merits of the NDP majority. "We have to be hopeful that the new government will take funding more seriously than the Liberal government did."

While no party made a strong commitment to post-secondary education during the election, individual candidates raised the issue, Graham said.

Friends of Ontario Universities, a new provincial group of university alumni, will discuss the election results at a meeting today. Margo Coleman, past president of the U of T Alumni Association, said she does not know how an NDP government will respond to the need for higher levels of university funding.

The ridings that include the three U of T campuses will be represented by two members of the NDP and one member of the Liberal party. The member for Mississauga West continues to be Liberal Steven Mahoney. In Scarborough East, Liberal Ed Fulton lost the riding to New Democrat Robert Frankford and in the downtown riding of St. Andrew-St. Patrick Liberal Ron Kanter was defeated by Zanana Akande of the NDP.

Akande is "a woman of exceptional ability," Prichard said. "Everyone should look forward to working with her."

Akande, 53, is principal of George Syme Community School in the City of York. She was born in the Kensington market area, attended Harbord Collegiate, U of T and the Ontario Institute for Studies in Education where she received a master of education degree in 1980. She lives on Spadina Rd., is married and has three children — a 24-year-old son at Osgoode Hall Law School, a 19-year-old daughter at the University of British Columbia and a 14-year-old daughter at Branksome Hall Girls School.

A long-time member of the NDP, Akande said she ran for office because she was "angry and frustrated" and felt she had to do more than merely criticize the government. At an all-candidates meeting at Hart House Aug. 29, she said that if elected she would immediately push for free tuition fees.

Asked about tuition on election night, she said she did not want to abolish tuition fees right away but would like to cap them. "There should be no further increases. Where there are, they should relate to inflation." No tuition fees at all "is my heart's dream" and a long-term goal, she said.

Akande said universities are "seriously underfunded." She wants the new government to spend more money on education and other social services. Industry and business will have to carry more of the cost of education, she said.

Swap sought

Continued from Page 1

includes a playing field, change rooms and tennis courts, is used by the U of T Schools. The University is looking at alternative recreational facilities for UTS, said Don Beaton, manager of real estate and capital budgets.

A report on the possible land swap will be presented to the Planning & Priorities Committee of the Academic Board Sept. 11. A proposal could be ready for the Oct. 18 meeting of Governing Council.

Opposition

Lantana-Metta representatives will meet with the Sussex-Ulster Residents' Association tonight to explain the land swap. "There is always opposition to change," Labbé said. "But opposition doesn't rule out the proposal."

From a legal standpoint, no approval is needed from ratepayers; however, in the political arena the question becomes "Does the city want to go against the ratepayers?" Labbé said. "The city's action depends very much on the circumstances surrounding the proposal."

UNIVERSITY OF TORONTO

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Notebook

Castel Gandolfo, the Italian village on the shores of Lake Albano, is probably best known as the summer residence of the pope. Professor **Bob Garrison** who spent five weeks there this summer teaching astronomy at the Vatican observatory said the quaint town square with its shops and restaurants brought to mind the setting for an opera. "You almost expected Luciano Pavarotti to lean out a window and start singing." During his stay, the World Cup soccer games were on and business all but stopped when the hometown favourites were playing. Italy is "soccer crazy," Garrison said. In fact, the streets were almost empty at game time. "The only sounds you could hear came from televisions all tuned to the same channel."

It's not easy to escape the University. One *Bulletin* staff member tried this summer — went to Nain, Labrador — only to find people there talking about Professor **George Luste** of the Department of Physics. Luste and five other canoeists spent a couple of weeks on the Labrador coast in 1988. Few other tourists have travelled the spectacular coastline in this fashion. Many are interested, but few dare. Luste held a symposium on Labrador last January. Some 650 people attended but only four attempted the trip he mapped out.

If you missed Focus on Books, the *Bulletin's* Aug. 20 issue, call 978-6981 and we'll send you a copy while supplies last. The issue contains feature articles on books by Professors **Janice Boddy** of Scarborough College; **Charles Jones**, **Lorna Marsden** and **Lorne Tepperman** of the Department of Sociology; **Julia Ching** of the Departments of East Asian Studies and Religious Studies; and Dr. **Allan Gross** of the Department of Surgery, sociologist Penny Gross and Dr. **Bernard Langer**, chair of surgery. Other articles examine the Jason A. Hannah Collection in the History of Medical & Related Sciences and the recent discovery by Professor **Pat Rosenbaum** of the Department of English of the lost manuscript of Virginia Woolf's *A Room of One's Own*. The issue also includes a selected list of recent books by U of T authors and an interview with **George Meadows**, the new managing director of U of T Press.

The *Bulletin* publishes a list of books by U of T authors once a month, so please remember to send along information when you publish.... In the weeks ahead, watch these pages for a special feature on *Lucius D. Clay: An American Life* and its author, Professor **Jean Smith** of the Department of Political Science. "Adroitly balanced, thoroughly researched, beautifully written, consistently fascinating, the book leaves you gasping in admiration," writes Clay Blair in the Aug. 19 issue of *The Washington Post*.

Since 1971 U of T faculty members have contributed more than \$200 million to University fundraising campaigns, says an article in the June 29 issue of the *UTFA Newsletter*. In his last report as president of the faculty association, Professor **Fred Wilson** said professors have donated an average of more than 10 percent of their salaries to the University each year — a total of almost two years' salary. "Perhaps Convocation Hall or 215 Huron St. could be suitably renamed in recognition of this fact," Wilson suggests.

The Natural Sciences & Engineering Research Council has announced a program of awards for women. Tenable in Canadian universities, the awards are designed to help provide opportunities for researchers in the natural sciences and engineering. Nominees must be Canadian citizens and hold doctoral degrees in one of the NSERC-supported disciplines. The deadline for nominations is October 15. For more information, call (613) 996-2009.

Erindale College is reporting increased enrolment again this year. About 6,300 students are expected to begin classes at Erindale Sept. 10, up from 4,872 10 years ago. More than 1,300 secondary school graduates have accepted offers of admission to full-time programs at the college, a 24 percent increase from last year. In addition, more students selected Erindale as their first choice of university, up eight percent over last year, 30 percent over 1988.

25 Year Club Annual Event to Honour New Members

Last fall the University established a service recognition program known as the 25 Year Club to honor those who had dedicated 25 or more years of service to the institution. In its start-up year, 800 staff and retirees became members of the Club.

This fall the President will be hosting a special inaugural dinner for new members and guests on **Thursday, October 25th**. 160 staff will be eligible to join the 25 Year Club. Each member will receive a gold University of Toronto 25 year service pin and a certificate commemorating their service at the inaugural dinner.

This month the President will be issuing personal invitations to eligible staff to attend the special dinner which will be held in the Great Hall at Hart House. Eligible staff include full- or part-time faculty, librarians, unionized and non-unionized administrative staff who attained 25 years service between July 2, 1989 and July 1, 1990.

Individuals with a break in employment (i.e., left their employment with the University and were later rehired) but whose total years' service at the University is 25 are also included in the program. Since information on this type of non-consecutive service is not available on the Human Resources data base, all those who fall into this group are asked to contact Lucy Danesi, local 6496, Staff Planning and Development, Human Resources Department, as soon as possible so that they may be appropriately recognized.



Feds approve GST rebate

by Karina Dahlin

CANADIAN universities will receive a 67 percent rebate on the goods and services tax (GST).

An agreement on the rebate was reached in June by the federal Department of Finance and the Association of Universities & Colleges of Canada (AUCC). Universities asked for a 70 percent rebate; the federal government was prepared to pay about 60 percent.

According to the agreement, institutions will pay the seven percent GST on the purchases they make and claim a rebate from the federal government. The effect is a 2.3 percent tax on all services and activities described as "tax exempt."

Ken Clements, executive director of the Canadian Association of University Business Officers, said the rebate was calculated on the basis of the federal sales tax currently paid by universities. "The effect is that we are no worse off. The question is what impact the GST will have on the rate of inflation."

Comptroller Tony Pieterse, co-chair of the University's GST task force, said the rebate of 67 percent could end up costing more than the current federal sales tax. Administration of the new tax will also be a financial burden.

U of T's greatest concern is the lack of direction from the federal government. The new tax, which still requires senate approval, is expected to take effect Jan. 1. The federal finance department has written the legislation but Revenue Canada has not completed its interpretation and will not issue its policies and procedures for at least two months.

Purchases

In the absence of legislation, the University may have to define what is a commercial activity and what is not, said Pieterse. Some purchases end up in commercial services and are subject to the seven percent GST. Other purchases are made for academic activities and qualify for the rebate.

The final list of commercial services at the University has not yet been made. They include U of T Press, Hart House, the Faculty Club, and the parking, residence and food and beverage services. When Revenue Canada completes its interpretation of the new legislation, the GST task force will issue a manual for University use including a definition of what a commercial service is.

In addition to the rebate rate, AUCC's agreement with the federal government provides for an exemption of meal plans that give students a minimum of 10 meals a week for four weeks. In other cases, food will be taxed at seven percent. The full tax will also be charged on books.

The cost of instruction for credit and non-credit courses will be tax exempt, as will compulsory fees students must pay in order to take courses. The GST will be charged on recreational courses but the rule affects mainly community colleges.

Director chosen for president's office

MARK JOHNSON, former assistant vice-provost (professional faculties), has been appointed to a new position — director of the Office of the President. Johnson, who has a PhD in history from U of T, started work as the senior staff person in President Rob Prichard's office Sept. 1. He has worked for the University since 1981, in the School of Graduate Studies and in the provost's office. His duties include briefing the president for meetings, handling correspondence, speech-writing, working with administrative officers on the president's behalf, interpreting policies and issues and managing the office's budget. The position was created to provide a "very efficient office that is fast and effective in dealing with issues and the public," Johnson said.

OPENINGS



HOMER FANNAN

President Rob Prichard, Robert McGavin, chair of Governing Council, Premier David Peterson and Murray Koffler, founder and honorary chair of the board of Shoppers Drug Mart Ltd., gathered at the Koffler Institute for Pharmacy Management Aug. 28 to celebrate its opening. Under the direction of Dr. Harold Segal, the institute will provide continuing education for the province's 7,200 registered pharmacists. The Spadina Ave. building cost \$4.6 million; Murray Koffler made a substantial donation towards its construction.



JEWEL RANDOLPH

Ontario minister of health Elinor Caplan (right) listens as Dr. Sadhna Joshi, director of the University's AIDS laboratory, welcomes guests to the facility's official opening. Caplan cut the ceremonial ribbon Sept. 5. President Rob Prichard, Dean John Dirks of the Faculty of Medicine and Dr. Mary Fanning, director of clinical testing programs for the lab, also took part in the event. In addition to the other guests, about 10 people with placards attended the opening to protest provincial policies regarding AIDS research and the treatment of persons with the virus. The Ministry of Health provided \$1.75 million towards the \$2 million lab; the Faculty of Medicine contributed the rest. Located in the FitzGerald Building on Taddle Creek Rd., the lab will conduct virological tests in support of clinical trials of drugs to fight AIDS. More than 25 researchers, affiliated with the facility, will undertake drug screening and development and study gene therapy.

Watching the weather

by Karina Dahlin

JURI WERNER of the Department of Geography is Toronto's sunshine man. Every day the instrument technician looks into a crystal ball that tells him how many hours of sunshine the city received the previous day. In jest some have suggested that he use the crystal ball to forecast the weather, but his is serious business: for 20 years he has been the official Toronto supplier of sunshine statistics to Environment Canada.

The crystal ball is known as the Campbell-Stokes sunshine recorder and works on the principle of magnifying glass and burning paper. By measuring the singed part of a strip of paper, Werner can tell how many hours of bright sunshine we had. For the sake of statistics, the government assumes that when the sun shines on the University, it shines on the whole city.

Werner was one of the important figures at a Hart House ceremony Sept. 5 when some 300 people celebrated the

U of T celebrates 150 years of observation

150th anniversary of weather observing in Canada. Following a dramatization by a group of actors of the first observations in 1840, Werner explained how the job is done now. Twice a day he goes to an observing station to measure temperature and precipitation activities. The information goes to the federal government's Atmospheric Environment Service (AES), which compiles the official weather history of Canada.

During the sesquicentennial celebrations at Hart House a 39 cent stamp was unveiled — 15 million of them went on sale that day — as well as a plaque which was installed later at 315 Bloor St. W. For about 60 years this was the address

of the Canadian meteorological service's headquarters.

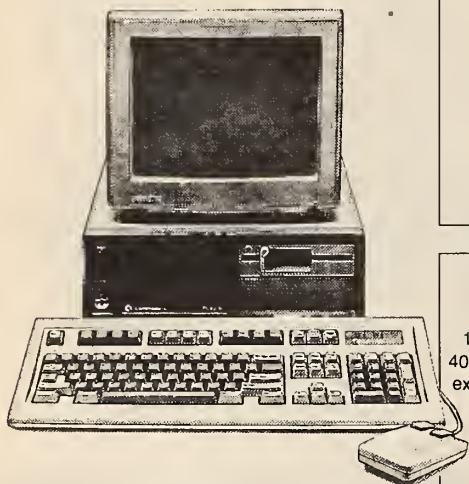
The original weather observatory at U of T, and the first in the country, stood east of the Sandford Fleming Building. It was constructed in 1840 by the Royal Engineers and was the responsibility of the British army's Lieutenant Charles Riddell. In 1853 the army asked U of T to take over the task, which it did until Confederation when the observatory became the property of the Dominion of Canada. Since then, the observatory has moved to other sites on campus. Today temperature and precipitation are measured at Trinity College. The weather station is one of 2,500 in Canada.

Dignitaries at the ceremony included President Rob Prichard, British consul-general John Brown and Elizabeth Dowdeswell, assistant deputy minister for AES. Although Toronto mayor Art Eggleton sent his regrets he did not let the occasion go unnoticed and declared Sept. 5 "City Weather Day."

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In Brief

Grant supports study of issues in nursing

U OF T and McMaster University have received a \$2 million five-year grant from the Ontario Ministry of Health to conduct joint research into the quality of working conditions for nurses. The funding is part of the ministry's \$15 million program to improve recruitment and retention of nurses in the province. The nursing faculties at both institutions have formed a research group consisting of practising nurses, educators and researchers to identify ways to increase job satisfaction among members of the profession. The group will create a permanent research centre to evaluate nursing issues.

Surgical procedure undergoes examination

PROFESSOR Samuel Lichtenstein of the Departments of Surgery and Physiology, a cardiovascular and thoracic surgeon at St. Michael's Hospital, has received \$398,000 from the Medical Research Council to conduct a two-year study to compare an innovative method of preserving the heart during surgery with the standard one of cooling the organ to reduce its need for oxygen. The new approach — called "revolutionary" by MRC — involves the elimination of the heart's electrical and mechanical activity with potassium during surgery while retaining normal body temperature.

Garfinkel heads Clarke, psychiatry department

PROFESSOR Paul Garfinkel has been appointed chair of the University's Department of Psychiatry and director and psychiatrist-in-chief of the Clarke Institute of Psychiatry. A researcher, clinician and administrator, Garfinkel was formerly vice-chair of the department and psychiatrist-in-chief of Toronto Hospital. He has conducted research and written extensively on anorexia nervosa and bulimia and established an eating disorders centre at Toronto General Hospital. He received his undergraduate medical education in Winnipeg and took his residency in psychiatry at the University. He is a consultant to the National Institute of Mental Health and the Medical Research Council.

New institute appoints Cioni to three-year term

MARIA CIONI has been appointed director of the Institute for International Programs for a three-year term. She will promote and strengthen the University's international activities. For the past two years, Cioni has been director of research support and international activities with the Ontario Ministry of Colleges & Universities. There she helped build links between the province and four European cities in the area of post-secondary education. She has also held positions in the federal government and the private sector. She obtained her BA and MA degrees from the University of Calgary and her PhD in British history from Girton College, Cambridge. Her thesis and publications have dealt with women and the law in Elizabethan England.

Pioneer in eyebanking receives award

PROFESSOR Prasanta Basu of the Department of Ophthalmology, director of ophthalmic research and the eye bank laboratory, has received the Canadian Ophthalmological Society Award for his 35 years of distinguished work in the field. The Royal College of Physicians & Surgeons of Canada has also recognized his contribution by naming him an honorary fellow. A native of India, Basu received his medical degree in 1946 and his certificate in ophthalmology in 1951 from the University of Calcutta. He established the world's first rural eye bank while

working in a mission hospital in northern India. He came to Canada in 1955 and organized this country's first eye bank at U of T; the following year he established the eye bank laboratory for research in corneal grafting and donor tissue. He has been an investigator with the Medical Research Council since 1965.

Jackel leaves University, opens own bookstore

MICHAEL JACKEL, president of the staff association from 1981 to 1983, has left U of T to open a bookstore on College St., west of Spadina Ave. Jackel was a U of T Press employee for 17 years and manager of the Bookstore since 1980. His store, College Books, carries academic and general interest books. From 1985 to 1988, Jackel was administrative staff representative on Governing Council. When he left the University Aug. 3, he was first vice-president of UTSA and served as its representative to the Confederation of Ontario University Staff Associations.

Wolff chairs federation, seeks business ties

DEAN Roger Wolff of the Faculty of Management has been elected chair of the Canadian Federation of Deans of Management & Administrative Studies for a two-year term. Formed in 1976, the federation represents 49 university business schools on national issues affecting management education and research. In a recent news release, Wolff said he will work to strengthen the relationship between business schools and business itself. He received his MBA in 1966 from the University of Alberta and his PhD in operations management from Indiana University in 1971. He joined U of T in 1969 and became dean of management in 1986.

Law society prize awarded to Sherbaniuk

PROFESSOR Doug Sherbaniuk of the Faculty of Law is one of five recipients of the 1990 Law Society Medal awarded by the Law Society of Upper Canada, the governing body of the legal profession in Ontario. The medal is given for outstanding contribution to the profession over an extended period of time. A specialist in tax law, he has served as director of the Canadian Tax Foundation since 1967. He graduated from the University of Alberta with a BA in 1950 and a LLB in 1953 and went on to obtain a LLM from Columbia University in 1962. He joined U of T in 1965 after a decade teaching at the University of Alberta.

Grant for Zola project allows for completion

THE Research Program on Emilio Zola & Naturalism will receive a five-year grant of approximately \$790,000 from the Social Sciences & Humanities Research Council to complete and publish the last three of the 11-volume set of Zola correspondence. The project, associated with the Department of French, received earlier SSHRC funding. Seven volumes are already in print; the eighth is due in the spring of 1991. The ninth will contain letters written during the Dreyfus affair, the 10th will cover the last three years of Zola's life and the final volume will include a supplement and a general index.

Cartilage research supported by MRC

PROFESSOR Shawn O'Driscoll of the Department of Surgery, director of the cartilage and connective tissue research lab at St. Michael's, has received \$124,000 from the Medical Research Council to carry out studies aimed at obtaining a better understanding of the biochemical, chemical and hormonal factors that control the healing of cartilage.



Eyes on the prize

MPP Alvin Curling (left), Gordon Cressy, vice-president (development and university relations) and President Rob Prichard attend the announcement of the Africa Prize for Leadership for the Sustainable End of Hunger. The Toronto portion of the internationally broadcast event took place in the Medical Sciences Building Aug. 23. The names of the winners were broadcast live from the United Nations in New York. Addresses by President Vaclav Havel of Czechoslovakia in Prague and President Robert Mugabe of Zimbabwe in Harare followed. The celebration was sponsored by the Hunger Project, an international non-profit organization, the Ontario-based Black Business & Professional Association (BBPA) and the University. The event was attended by Carl Masters, chair of the board of the Hunger Project, Dwight Whyllie of the BBPA and others. The Africa prize, first awarded by the Hunger Project in 1987, went this year to Esther Ocloo of Ghana, an entrepreneur and founder of Women's World Banking, and General Olusegun Obasanjo of Nigeria, a former head of state.

Revisions clarify grading practices

A NEW section of the revised grading practices policy, approved by the Academic Board in May, says students in clinical settings outside the University classroom must be marked according to the principles of the policy in a "fair, humane, valid and reliable" fashion.

David Cook, vice-provost (staff functions) said the University's ombudsperson has received complaints from students in clinical courses, mainly in professional faculties such as medicine, nursing, social work and forestry. "It was not clear to students how they would be graded," Cook said.

Under the new provisions they must receive a formal statement describing the evaluation process, a mid-way performance review and written documentation of the final mark.

The revised policy also includes a new section on procedures in the event of disruptions. In future, changes to classroom work "should, where possible, first be discussed with students," who will get a chance to vote on the suggested changes.

If students don't agree or if no vote can be taken, the instructor makes a recommendation to the chair or division head, who makes the final decision on new classroom procedures. Another procedure says that where students have not attended classes that meet despite other disruptions, they remain responsible for the course work.

Cook said the strike by teaching assistants last year demonstrated that the University was not prepared to handle the consequences of students' education being put in jeopardy.

A five-member working group headed by Cook wrote the new section and attempted to find principles that would apply to disruptions of any kind. It considered the possibility of transit strikes and natural disasters, but, said Cook, not two-hour electrical blackouts during exams — a situation that occurred in April, shortly after the guidelines were drafted. "We cannot write a policy for all circumstances. The University is too wide and diverse for us to write a section for each possible situation."

Some students are unhappy with the disruption clauses of the policy, said Cook, and the administration has already thought of changes to the section on examinations, but the grading practices policy will probably not undergo further revisions for a while.

Other sections of the policy set out classroom procedures, grade review and approval processes, student access to examination papers and procedures for conflict of interest situations. The purpose of the policy is to ensure that grading practices at U of T reflect "appropriate academic standards," that student evaluation is fair and that grading is uniform throughout the University.

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Magdalen College, Oxford

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Assignment of 20 carrels will begin October 1. More information can be obtained for the science and medicine periodicals desk or by calling the science and medicine serials librarian at 978-7663.

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Letters from Readers

Defining dissent; avoiding abuse

TO THE EDITOR:

The UTFA Newsletter of June 29 raises a number of objections to the proposed Code of Academic Behaviour. I do not agree with UTFA's positions on demonstrations.

No person has the right to be the sole arbiter of his or her actions. A person demonstrating may, on the basis of some deeply felt principle, take action which impinges on the integrity of some other person or organization and thus break a law. He should be prepared to be held accountable for such action and any aggrieved party should have the right to seek redress in a properly regulated way. A person who feels that, because of his opinion, he can trespass, disrupt and assault with impunity is both arrogant and cowardly.

If a demonstration consists of picketing and handing out information but

**Objectionable doctrines
should be refuted
in intellectually
respectable ways.**

does not inhibit individuals from carrying out their business, then certainly one can have no objection. But I see no reason why it should not be an offence "to engage in disruptive behaviour of a sort that at all prevents another member or members of the University from studying or participating in a course."

For example, a student who finds himself unable to work in the library because of continuous loud noise should be able to seek redress whether the agents are people in the next carrel holding a conversation, students in a nearby residence having a party or demonstrators at the entrance. If the demonstrators feel that there are extenuating circumstances then they should be prepared to put them to the test in some sort of adjudication. Would the University community prefer that the disturbed student seek out a few of his buddies to go and punch out the demonstrators?

One comment by the faculty association concerns objectionable behaviour in a lecture: "Similarly suppose that a professor invited someone with theories that were widely held to be racist to address her class. A peaceful but vociferous demonstration [emphasis mine] outside the classroom ... would be an offence under this proposal."

Why not, if there is indeed disruption? What is "widely held to be racist" supposed to mean? Is the judgement to be made by an ad hoc group of like-minded people?

This is not to deny that objectionable doctrines could be promulgated within the University precincts. One of the values we uphold is that they should be refuted in intellectually respectable ways, not by the power of the mob. Can groups

who oppose other values such as liberalism, socialism, free choice for abortions, use of experimental animals and affirmative action for minorities also carry on disruptive behaviour to prevent meetings from occurring?

Certainly anyone who objects to what a professor does or allows in her class should be able to seek redress. A professor who deliberately misuses her position or distorts research to promote prejudice should be held to account and if convicted of violating the norms of competent and disinterested research be subject to some sanction. But this should be done through a properly constituted tribunal.

There is nothing to be gained by denying the sound principle that everyone should be held responsible for actions that might affect others adversely. However, UTFA is quite right to address the following questions: Is the wording of the code sufficiently precise to avoid abuse? Are the proposed sanctions both explicit and proportional to the offence? What safeguards are present to ensure a full hearing and prevent injustice? What protection is there from arbitrary administrative action? Does the University need its own regulation or is it sufficient to make sole use of the provisions of the Criminal Code? For the former option, would the defendant be in danger of double jeopardy? Is the right of every member of the University community to dissent peacefully without threat to privacy, property and status adequately protected?

Not every contingency can be provided for. For the proper functioning of the University, we have to rely on individual judgement and sensitivity — on the part of the demonstrators, on the part of the professors who hold controversial views, on the part of administrators and on the part of tribunals who may decide that a grievance long swept under the carpet may indeed account for extenuating circumstances.

Ed Barbeau
University College

Heightened awareness

TO THE EDITOR:

In a recent *Bulletin* (Notebook, June 25) there was a brief (please notice I do not write "short") quotation from my remarks at the Hart House reception for George and Sheila Connell June 18 along with the entirely gratuitous description of me as "only five feet." I could accept "grandly five feet" or "proudly five feet" but "only five feet"?

It is high time the University developed guidelines on stature-neutral language. Clearly, they are long overdue.

Karel Swift
Office of Student Awards

A worthwhile recycling project

TO THE EDITOR:

I find it ironic that the recycling of garbage at U of T receives so little attention at a university that has an Institute of Environmental Studies.

Efforts to recycle only fine white paper and a small pilot project for pop cans seems to be an inadequate response from an institution that should be leading the way in waste management.

Much of the garbage generated here can be completely recycled. At home we recycle glass, metal cans and newspapers and, in the small town where I live, there are many containers in front of commercial establishments to accept these items.

Expanding the campus recycling program would be a worthwhile project for

the various student groups and newspapers; there may even be a profit in it.

Robert S. Young
Department of Psychology



"This picture should shout 'unsafe work practices'."

Lab practices and photographs

TO THE EDITOR:

As one of the University's occupational health and safety officers I try to promote safe work practices. Upon reading an article in a recent *Bulletin* ("Silver wins

**The photograph may
in fact send an
incorrect message that the
practices portrayed are
entirely safe.**

teaching award," June 25) and seeing the accompanying photograph, I was immediately struck by the irony of the juxtaposition of a photograph portraying a professor clearly engaged in unsafe work practices and an article recognizing that same individual for her excellent teaching abilities. This letter is concerned with the photograph used for the article and is by no means meant as a commentary regarding Professor Silver.

The moment it is seen this picture should shout "unsafe work practices" to any research personnel. My concern is that the photograph, as a result of the accompanying article, may in fact send an incorrect message that the practices portrayed are entirely appropriate and safe.

The picture portrays Professor Silver conducting research work involving the transfer of a chemical from a pipette to a test tube. The test tube and pipette are close to her face and above eye level. To make matters worse, the individual is not wearing approved safety glasses (hers have no side shields) or goggles. This is contrary to safe laboratory practice; it places the individual at risk of getting the chemical in her eyes or on her face.

On the other hand, the photograph does show her taking some proper personal health and safety precautions. She is wearing a lab coat, disposable gloves and a radiation dosimeter badge (that measures radiation exposure).

These precautions and the reputation of the individual about whom the article was written lead me to conclude that the photograph does not likely represent the normal working habits of Professor Silver but rather the pose desired by the photographer in order to obtain a more interesting shot. It takes many thousands of words to reverse attitudes that may begin as impressions from a photograph.

David Tozios
Office of Environmental Health & Safety

Letters deadlines

September 14 for September 24
September 28 for October 9
October 12 for October 22
November 2 for November 12
November 16 for November 26
November 30 for December 10

Letters should be submitted on a computer disk (5.25 inches) in WordPerfect or plain text format, or on paper, typed and double spaced. Please include a telephone number and, if possible, a fax number. Disks will be returned if an address is provided.

Marshalling the evidence

BY DON DEWEES

Given the facts, asbestos in Sidney Smith Hall poses an insignificant risk to occupants

Concerns have been expressed about asbestos insulation in University buildings and risks to building occupants. However the evidence shows that occupant exposures are extremely low and occupant risks insignificant. I believe that the focus on asbestos risks to building occupants has been counterproductive.

In the spring of this year, staff of the Arts & Science Students' Union (ASSU) and the Association of Part-time Undergraduate Students (APUS) expressed concerns about the presence of asbestos in Sidney Smith Hall and risks that it may cause for occupants of that building. They retained Mr. Stan Gray, a consultant and activist, who alleged that asbestos exposures in Sidney Smith pose "a significant hazard to students, teachers and maintenance personnel" and that the ventilation air was disturbing the asbestos above the ceiling tiles and circulating it throughout the building. The University was pressed to remove the asbestos. ASSU has warned students that attending U of T may be hazardous to their health.

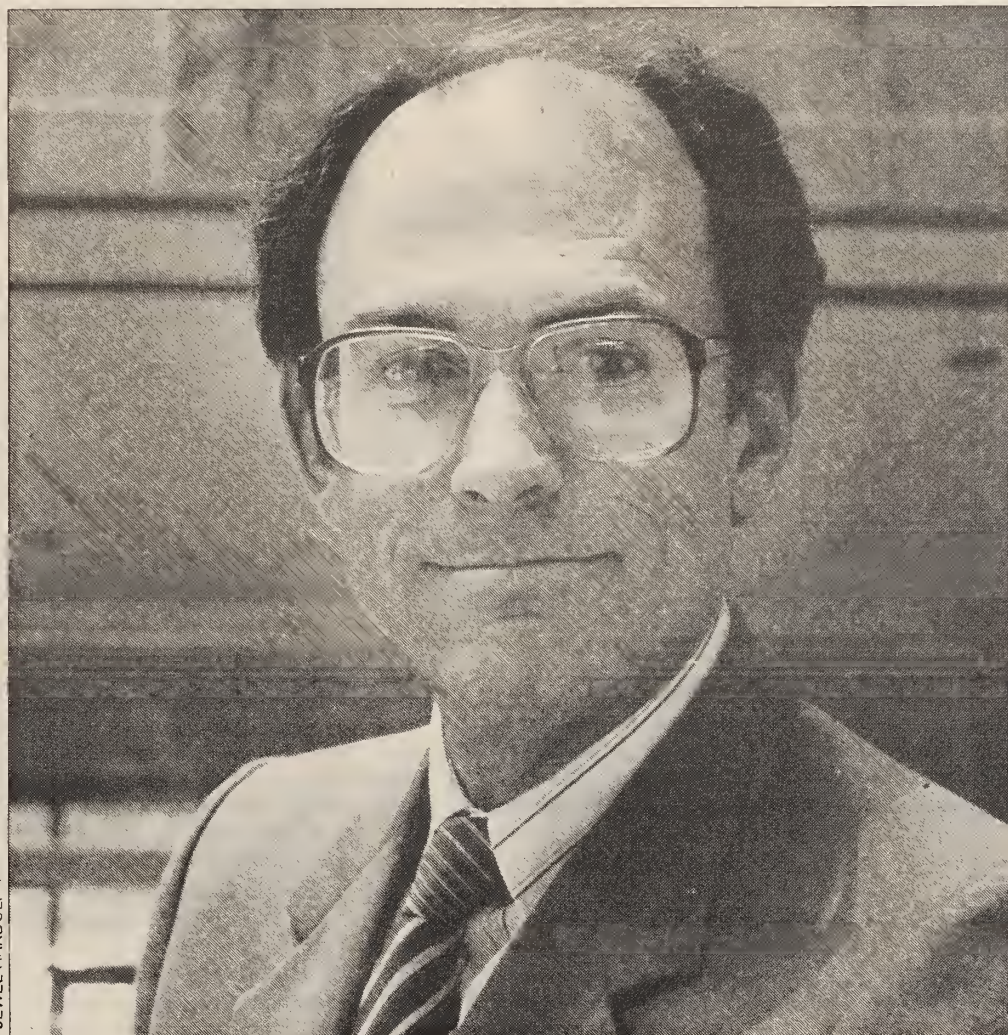
Fortunately we are not the first to worry about asbestos in buildings. The Ontario Royal Commission on Asbestos, chaired by Professor Stefan Dupré of the Department of Political Science and which I served as director of research, was established in 1980 in part because of similar concerns. During four years of study, the commission heard sworn testimony from 53 experts including the world's top scientific experts on asbestos. Two chapters of the 900-page report deal specifically with asbestos in buildings.

The commission found that building occupant exposures are very low, generally less than 0.001 fibres per cubic centimetre (f/cc), which is one ten-thousandth that of the insulation workers who installed the material. Indeed indoor exposures may be similar to airborne asbestos levels in outdoor air. The commission concluded that any risk of lung cancer or mesothelioma, a cancer of the lining of the pleura or peritoneum, to building occupants from these low exposures is insignificant. It follows that removal is rarely required for occupant protection. Furthermore removal disturbs the material and can cause increased risks unless carefully performed.

In contrast, the commission concluded that building maintenance and custodial workers who disturb friable asbestos could receive significant exposures. The commission recommended that a maintenance program be established in any building containing friable asbestos and that workers be trained to take precautions when working around the asbestos, just as they are trained in safe procedures for working with other building hazards such as electrical wiring and steam lines.

How large is the risk to building occupants? The commission concluded that someone who worked in a building for 10 years where there was an average exposure of 0.001 f/cc and who commuted by automobile five miles

each way to work would experience a traffic fatality risk 50 times greater than the risk from the asbestos. Subsequently Sir Richard Doll and Dr. Julian Peto, distinguished British researchers, concluded that the lung cancer risk from spending seven hours per week in a room with a smoker is 60 times greater than the risk from working full-time in an asbestos-containing building.



Professor Don Dewees of the Department of Economics

Bricks give off radon gas which can cause lung cancer. The risk of lung cancer from living in a brick house may be three times as great as the risk from working in an asbestos-containing building.

It has been suggested that Sidney Smith is somehow different from the buildings contemplated by the commission. But the commission studied asbestos exposures in 19 Ontario buildings and 14 of these buildings were

building occupants is insignificant.

The allegations of hazards to building occupants in Sidney Smith are based on suppositions about the effect of the conditions in the building on airborne asbestos fibre levels. Mr. Gray and ASSU have presented no credible evidence that the conditions in Sidney Smith cause significant airborne asbestos fibre levels for occupants. If there were no

very small exposures. If such entry were frequent and caused high exposures of long duration that affected many building occupants, those exposures would have been revealed by the air monitoring tests that have been conducted in asbestos-containing buildings including Sidney Smith. Instead, the evidence is consistent with the exposures from such entry being low, local and of short duration, which implies insignificant occupant risks.

While faculty and staff should try to ensure compliance with the maintenance plan, occasional lapses should not raise significant risks for building occupants.

Finally, only chrysotile asbestos has been found in Sidney Smith. The commission concluded that chrysotile is the least dangerous of the three types of asbestos, presenting little risk of mesothelioma and low or no lung cancer risk at low exposures. Recent epidemiological data are consistent with the hypothesis "that exposure to chrysotile at current occupational standards does not increase the risk of asbestos-associated disease" (Mossman et al., *Science*, Jan. 19, 1990, p. 247). That is, there may be no risk at all from low-level chrysotile exposure, particularly at the level of building occupants.

The discussion that has taken place since the spring may have increased the care with which the University manages the

asbestos in its buildings, including Sidney Smith. Unfortunately the risks posed to building occupants have been greatly exaggerated, unnecessarily frightening many members of the University community. ASSU's reluctance even to recognize the conclusions and recommendations of the commission is disappointing in a university dedicated to expanding knowledge, not ignoring it.

I am not arguing that no action should be taken in University buildings containing friable asbestos insulation. On the contrary, I believe that the recommendations made by D.J. Pinchin Associates should be implemented and a rigorous asbestos management plan should be put in place which would protect maintenance workers who might disturb that asbestos, and thereby protect the occupants. Faculty and staff can assist in the successful operation of this plan.

Finally, I do not see a need for removal at this time. In the future, the long-lamented inadequacies of the ventilation system in Sidney Smith will require complete renovation of the system; at that time, the asbestos will have to be removed. With careful planning, perhaps we will seize that opportunity to perform a major upgrading of the building, creating a first-class educational facility.

Not one fibre of the relevant dimension was found.

similar to Sidney Smith in their construction, with the application of sprayed asbestos insulation above a dropped ceiling. D.J. Pinchin Associates, who inspected Sidney Smith, have stated that the condition of the material in there is similar to that in many of the buildings displayed on page 566 of the commission's report. In only five of the 19 buildings were any asbestos fibres of the relevant length discovered. This evidence from buildings like Sidney Smith contributed to the commission's conclusion that the exposure of

contrary evidence, we might rely on supposition, but there is substantial contrary evidence. The commission data plus hundreds of additional measurements of asbestos fibre levels in buildings in the United States and Canada demonstrate that fibre levels are at least as low as those found by the commission, and perhaps lower.

In July the air in Sidney Smith itself was tested. The results confirm that exposures are as low as indicated by the commission. Indeed not one fibre of the relevant dimension was found in the air. The claim that occupants face significant exposures is without foundation.

In the past, ceiling tiles in Sidney Smith have been lifted and maintenance work performed above the tiles or wires strung through this space. The University has prohibited unauthorized work above the ceiling, requiring a set of precautions for authorized work in that space as part of a maintenance plan. This plan should protect both the workers who enter that space and the occupants of the building itself.

But what if the plan is not followed perfectly and some unauthorized entry into the ceiling occurs? Limited data suggest that while the worker may experience elevated levels of exposure, occupants in the room below would face

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THE NEW CHAIR OF
RESEARCH BOARD
TAKES ADVANTAGE
OF THE EVENTS
AND ISSUES OF THE
DAY TO CREATE
UNDERSTANDING
OF RESEARCH.

BY KARINA DAHLIN



People need to be reminded of the importance of the humanities, says Professor Brian Merrilees of the Department of French, who became chair of the Research Board July 1. "A lot of attention is paid to science, technology and medicine, and rightly so, but the things that have been done in other areas are also worthy of attention — otherwise I would not be doing research."

A Killam research fellow, Merrilees is currently analyzing and editing a medieval Latin-French dictionary. He is so excited about the project that "some mornings I can hardly wait to go to work." The endeavour is more than a study of the French language, it also shows how people organized information before printing presses were common.

Merrilees' enthusiasm will serve him well. (His hobby — pole vaulting — may be indicative of his attitude to challenge. At 51, he is one of a few active competing vaulters in his age group.) He hopes to transmit the excitement of academic inquiry to people inside and outside the University. "We have to tell people what we are doing, why we are doing it and why it is important." With greater public interest, it should be easier to con-

vince governments to increase the University's research budget.

In recent years U of T has had some "very unfortunate cases" of experienced scholars whose grant applications were denied, Merrilees said. Those who are successful often end up paying some of their own expenses. "It is very common for people who ask for travel money to receive the cost of an economy air fare but to pay their own per diem expenses."

Merrilees is the first representative of the humanities to chair the Research Board. He was a member during the early 1980s when he was chair of French and was an ex-officio member during his term as vice-provost (arts and science, graduate studies and the library) from 1984 to 1987. Last year he joined the board again and was asked to succeed Professor Keith Balmain of the Department of Electrical Engineering as chair for a three-year term.

In an interview at his Victoria College office, Merrilees said his role is to serve all research interests, regardless of discipline. As vice-provost he was involved in establishing the Canadian

Brian
Merrilees
at work.

Institute for Theoretical Astrophysics (CITA). "You can imagine how much I know about the field, but it appealed to me because the quality of the people was so high. We've done a fabulous job by having that institute here. I get excited when people tell me about their research and communicate their enthusiasm."

He has personally experienced the reaction of lay people who suddenly understand the researcher's role. In 1976 he was working on the French version of the legend describing the voyages of St. Brendan on the Atlantic Ocean in the sixth century. As he carried out his research, Tim Severin, an English sailor, set out to prove that it is possible to cross the ocean in a leather boat built according to the descriptions in the legend. Severin's trip received much attention and also ended up giving Merrilees a boost. "I still remember the reaction of my neighbours. They couldn't believe I was actually doing something relevant. Suddenly they saw the interest in what I was doing — before then it was just something esoteric."

While few researchers receive such unexpected assistance in explaining the merit of their work to the public, Mer-

The Research Board, 1990-91

The Research Board is composed of leading researchers at the University. It is an independent board with no ties to Governing Council and provides advice to the vice-president (research).

The board has 15 to 20 members and nine ex officio members: the provost, one vice-provost, the vice-president (research), the assistant vice-president (research relations and technology transfer), the director of the Office of Research Administration and the deans

of the School of Graduate Studies and the Faculties of Medicine, Applied Science & Engineering and Arts & Science.

The other members of this year's board are: **John Beattie**, director, Centre of Criminology; **Marsha Chandler**, chair, Department of Political Science; **Don Dewees**, Department of Economics; **Frank DiCosmo**, Department of Botany; **Evert Hoek**, Department of Civil Engineering; **Ron Kluger**, Department of Chemistry;

Michael Millgate, Department of English; **Heather Munroe-Blum**, dean, Faculty of Social Work; **Tony Naldrett**, Department of Geology; **John Perz**, chair, Division of Physical Sciences, Scarborough College; **Paul Sadowski**, Department of Medical Genetics; **André Salama**, Department of Electrical Engineering; **Michael Sole**, director, Centre for Cardiovascular Research and **Jaro Sodek**, Faculty of Dentistry.

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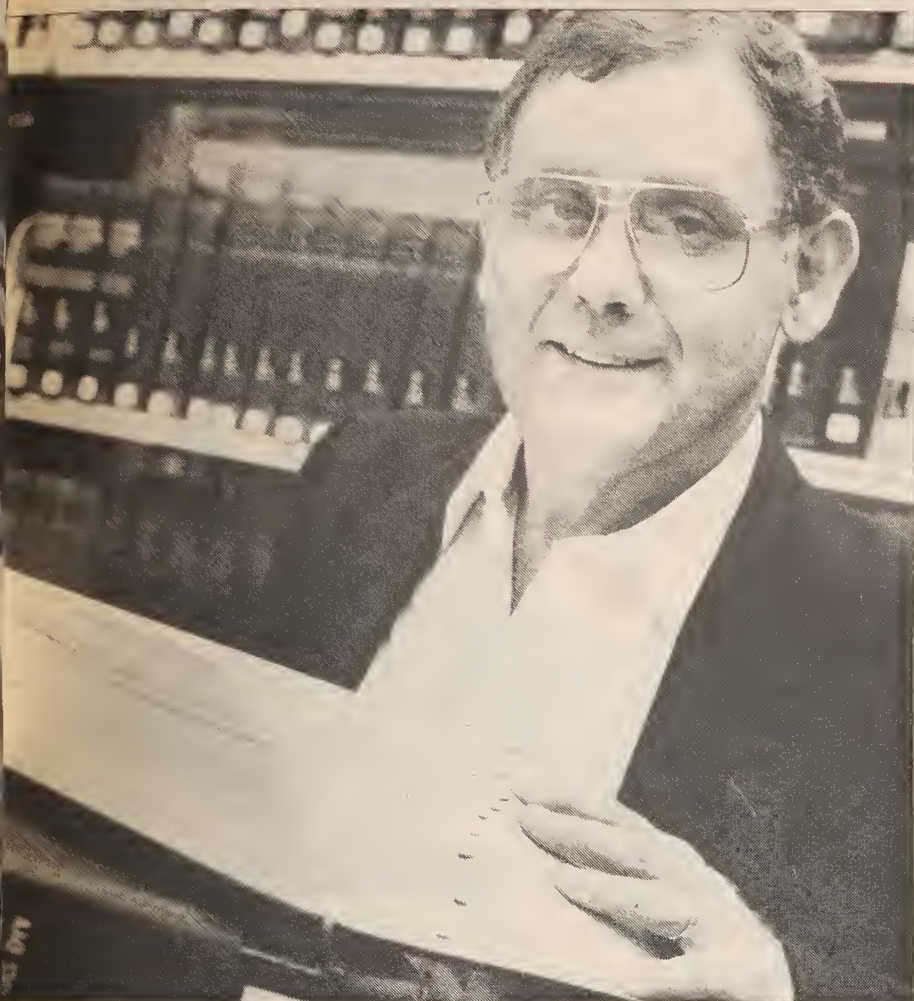
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RESEARCH



JEWEL RANDOLPH

rilees encourages the use of similar opportunities when they happen along. He has already started to promote an upcoming volume of *The Correspondence of Emile Zola* which includes Zola's letter on the Dreyfus affair, a political crisis that has had a lasting effect on French society. One of the core issues of the affair was anti-semitism. Race relations are as relevant today as they were 90 years ago and Merrilees hopes he can explain that to potential sponsors of the ninth volume.

When he heard the news of Professor S.P. Rosenbaum's discovery of a manuscript by Virginia Woolf he asked the University's media relations office to issue a news release. Rosenbaum's discovery is a first-class example of the value of basic research in the humanities, Merrilees said. "Anyone who works in research can sense the excitement of making that kind of discovery. My eyes light up when I think of coming across a manuscript no one had seen before. I would be three feet off the ground."

During his first month as chair of the Research Board Merrilees received four emergency phone calls. Two were from people in the humanities who discovered a shortfall in expected funding and two were from people in the basic sciences who ran into unexpected equipment failures and had no money for repairs and replacements. The budget of the Research Board did not allow Merrilees to write the researchers a cheque but, in one case, he accompanied the scholar to Breakthrough to ask

for money and in another he spoke to people outside the University about a donation.

In all four cases, the work will continue, but under worsened conditions. "The usual effect is that things will be done but it will take longer." Merrilees

hopes situations like these will help scholars band together, regardless of their specialties.

One of the barriers to interdisciplinary harmony is the diversity of research methods at the University, ranging from "the traditional to the innovative." In the case of CITA, the research is based on a team effort, while

Rosenbaum's work is an individual effort. One method is as good as the other, Merrilees said. "We have to remember that in collaborating, networking and forming research groups, there are some people who work well individually and they should not be neglected."

That is one of the messages he will bring along when he, members of the board, President Robert Prichard and faculty members from other universities go to the Ontario government to ask that a provincial equivalent to the national Social Sciences & Humanities Research Council (SSHRC) be established. Traditionally, the federal government has paid for university research but federal government support is declining and frequently comes without overhead costs. The province, on the other hand, has targeted funds for science, medicine and technology and pays the overhead costs in its centres of excellence. The time has come for the province to consider the social sciences and humanities as well, the universities say. ♦

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Joan of Art



HOMA FANIAN

TWO YEARS ago, shortly after Elizabeth Legge became the University's first full-time professional art curator, her three-year-old son, Max, came to her University College office. During the visit, he drew his first picture of a person on the blackboard — "a man with hair in his ears." Legge (whose 1986 PhD thesis dealt with French surrealism) liked her son's drawing so much she never erased it. "This is a child of a scholar of surrealism," she says with motherly and professional pride. "He has an eye for the repulsive detail."

Max's penchant for caricature may be inherited. From 1976 to 1978, on a break from her studies, Legge made dolls that resembled politicians and aging rock stars. They were heralded as "soft sculpture." Legge thought they were beautiful, but others found them grotesque and felt squeamish in their presence. Her father refused to stay in the same room as the dolls.

Pierre Trudeau was portrayed as a "merman" (Trudeau's seductive powers reminded Legge of mermaids who lure sailors to their deaths) and was purchased by a Winnipeg man who disliked the prime minister so much he wanted to destroy the doll. No censor, Legge received her \$300 and let the customer be his own art critic. But the merman appears to have had alluring powers: Legge has heard the doll still exists.

Today there is little time in Legge's life for dolls. She teaches, writes and looks after the 3,000 works of art at the University. With the other members of the Faculty Club's subcommittee on art she recommended that the club replace six stolen Group of Seven paintings with contemporary art.

The eight works, scheduled to be unveiled in October, represent the best

of current Canadian landscape painting. They may disturb the tranquillity of the Willcocks St. retreat — some club members may even disapprove of the art committee's choices — but as a lecturer on modern art, Legge is used to negative reactions.

"If you teach anything that is post-impressionist, people want you to be the interpreter of and apologist for all modern art. It's very hard to explain art that is meant to disrupt your way of thinking. In the last 140 years, artists have tried to go beyond simply producing works that comfort, console and represent a perfect world. They are dealing with a whole range of intellectual projects and agendas. The role of art in society has changed."

In that light it is surprising that Legge's favourite artist is not contemporary. If she had to choose one work

only, she would probably pick a painting by Manet, the French impressionist. "My reasons are emotional, a real sensuous appreciation of how he painted. I admit I'm a pushover

for superficial pleasures. Not that Manet is superficial, but I cannot argue that his paintings look nice."

Perhaps the patrons of the Faculty Club would prefer a more traditional style as well, I suggest. Legge agrees but points out that older art is too expensive. And there is another reason for buying modern Canadian art. "I suppose I sound like Joan of Arc but I did feel that as an institution buying contemporary art, U of T should support living contemporary artists and bring our art collection up to date."

The principles and politics of art are serious business and Legge's job never lets her forget that. But her eye for the absurd — and Max's drawing — add a light touch to her day.

Artists have gone beyond works that represent a perfect world.

UNIVERSITY Ombudsperson

Confidential advice and assistance with problems unsolved through regular university channels is available to all students, faculty and administrative staff of the three U of T campuses.

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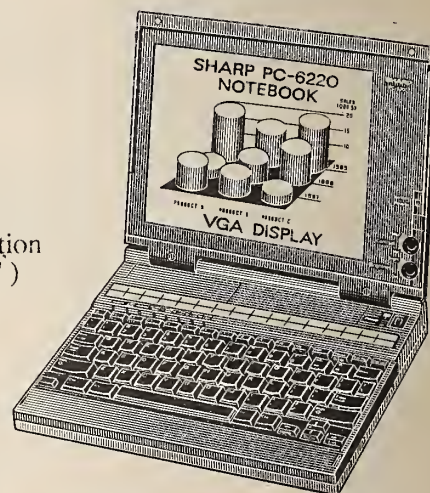
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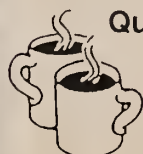


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THE 1990 UNITED WAY CAMPAIGN



PAUL SPENSER

Physical therapy programs

GIVING HELPS

by Gay Abbate

The University expects to raise \$550,000 during the month-long United Way drive that begins Sept. 24. The target — a 6.5 percent increase over the \$517,000 raised last year — can easily be reached and even surpassed, said Professor Michael Finlayson, chair of the Department of History, this year's campaign chair.

The United Way is worthy of strong backing, Finlayson said. Contributors will feel better for helping to ease the pain of a large number of fellow human beings. The United Way supports more than 250 primary health care and social service organizations in the Metropolitan Toronto area including shelters for families and abused women, centres for the elderly and immigrants, nursery schools and distress centres.

The argument that the needy are the government's responsibility should not be used as an excuse to avoid making a donation. "Whether the government should or shouldn't fully support these groups, the fact is it's not going to do it. The world is a better place if we do it," Finlayson said.

One in three Metro residents — about one million people — use United Way services each year. In 1989 this included 225,000 children and youth and 140,000 seniors. The United Way is cost effective. Only 12 cents of every dollar raised is spent on administration; the rest is funnelled back into the community through member agencies. United Way support assists the organizations in raising funds from other sources.

If feeling good is not sufficient incentive to donate, everyone contributing a minimum of \$20 before Oct. 30 is automatically entered in a raffle draw to take place in November. First prize is a week for two to Puerto Vallarta, Mexico, courtesy of Marlin Travel and Canadian Holidays. Other prizes include an overnight stay at the Oban Inn at Niagara-on-the-Lake and series concert tickets to the Toronto Symphony Orchestra.

Making a donation is easy and relatively painless through payroll deduction. Personalized pledge cards are currently

being distributed to all staff and faculty. Contributors are eligible for a federal tax credit. If paying through payroll deduction, withdrawals begin in January 1991 and a tax credit will be issued for that year. The tax credit will be for 1990 if paying by cheque.

The official campaign kick-off is at noon on Sept. 18 on the front campus. A variety of activities are planned, including a four kilometre relay race for teams of four. There is a special incentive to participate — the unit with the most teams has the first chance to dunk President Rob Prichard.

The dunk tank is likely to prove popular. With each \$2 contribution to the United Way comes the chance to dunk the president or any of the others who have volunteered — Finlayson, Provost Joan Foley, Gordon Cressy, vice-president (development and university relations), SAC president Tim Costigan and John Godfrey, editor of the *Financial Post*. Prichard has pledged \$1,000 for the privilege of being the first to dunk the campaign chair.

Lunch is free — hot dogs donated by Canada Packers Inc. and juice courtesy of Nestle Enterprises Ltd.

Students are going all out to make the drive a success. Last year they raised about \$7,000. Their 1990 goal is \$30,000. SAC is organizing a number of activities, including a plant sale, while the news-

paper is holding a donation drive with a lucky contributor winning a five-day helicopter-hiking trip to the Canadian Rockies. Details of all student activities will be announced over the next few weeks.

Friends and suppliers of the University have already contributed goods and services worth about \$12,000 including large coloured posters, paper and printing.

Last year, 3,540 people — approximately 37 percent of all U of T full-time employees — donated to the United Way. This percentage is low compared with the more than 50 percent participation rate of Carleton and Trent Universities and the Universities of Ottawa and Windsor. Finlayson believes U of T's large size may be a factor. Smaller institutions tend to generate a greater sense of community and hence more participation.

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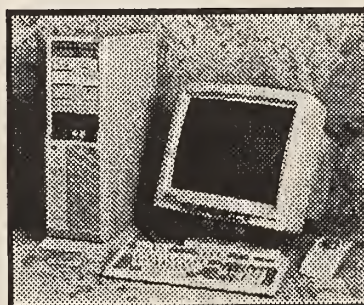
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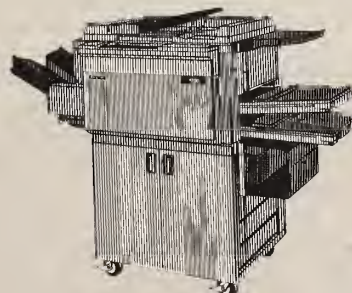
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Joy McCorriston, a PhD student from Yale University, and her assistant, Shadeh Ahmad Hassan, separate carbonized seeds from soil. The seeds, remnants of a late Neolithic farm, float to the top of the large bucket and are caught in a sieve. The farm site in what is now Jordan was excavated this summer by Professor Ted Banning of the Department of Anthropology. McCorriston and Hassan participated in the dig.

A pot found in the tomb at the Wādī Ziqlāb site in Jordan in 1987. The absence of decoration helps date the artifact.



TRACES OF TRANSITION

The decline of Neolithic villages marks the rise of small farms.

BY GAY ABBATE

Professor Ted Banning of the Department of Anthropology has discovered a farmstead dating from about 5000 B.C. — the first documented example from the late Neolithic period (5000-4200 B.C.). Banning and a team of researchers from U of T and other North American universities made the discovery this summer in Wādī Ziqlāb, a valley in the highlands of northern Jordan. The work was funded mainly by the Social Sciences & Humanities Research Council with assistance from the Jordanian Department of Antiquities and the American Schools of Oriental Research.

The late Neolithic period — unlike the pre-pottery Neolithic period (7500-6000 B.C.) when people lived in large villages containing up to 300 houses — is notable for its lack of village sites. A prevalent theory says the people lived in tents. Banning's discovery indicates the possibility that people during this period lived on small farms, difficult for archaeologists to discover. The new patterns of settlement may have come about as a result of general climatic changes and particular environmental problems resulting from deforestation and overgrazing. The inability of the people to live peacefully in larger settlements in the absence of an adequate political system may also have played a part.

Banning made his first visit to Jordan in connection with this project in 1981, searching for promising archaeological sites. He settled on Wādī Ziqlāb, a two-hour drive from Amman. Archaeologists have tended to overlook small sites, including farms and camps, in favour of large sites on eroded

hill tops where surveying and discovery are easier. But after several expeditions to Jordan in the last 10 years, Banning believes dozens of farms may be buried deeply in the soil and gravel that have accumulated in the valleys.

During excavations in 1987, a trench three metres by 75 centimetres dug at random revealed a large slab-lined tomb from about 4600 B.C. containing the skeletal remains of two adults, male and female. While it is only about five kilometres from the nearest villages, the site was for the most part untouched. At first, Banning believed the grave was part of a cemetery but has since rejected the hypothesis. The recent excavations have provided evidence for a more variable burial pattern.

This summer Banning and his team uncovered the remains of three structures, believed to be houses, and stone walls, perhaps outdoor terraces and fences. Inside the structures he found the graves of two children, probably dug just before the buildings were abandoned. Next to the dwellings, other remains were found in cists — small stone-lined chambers covered with stone slabs. The best preserved were those of a 10-year-old in a clay bin that might have been used to store grain. No adult remains were found, suggesting that it was the practice to bury adults on the periphery of the settlement. Banning and his team also unearthed a number of significant artifacts consistent with a farming settlement. They included toothed sickle blades for harvesting wheat and barley, grinding stones for turning wheat into flour, scrapers for sheep or goat hides, spindle whorls (small circular objects with holes in the middle used as weights to spin wool) and a socket



The bones of a 10-year-old found in a clay-lined storage bin in the walls of a house.

made of limestone, the bottom hinge of a door. The researchers expected arrowheads and bones of wild animals but found none, indicating that hunting was rare.

The domestic and storage pottery they found in the settlement appears to be later than pottery from known sites of the sixth millennium B.C. and may fill the gap in our knowledge of the first half of the fifth millennium. Radioactive carbon tests on charcoal and bones found with the pottery will be used to determine the exact age. Tests on the clay's chemical and mineral composition will help determine the artifacts' origins — whether they were all locally produced

or some imported by the trade routes.

Banning hopes to return in 1992 to look for other graves and for artifacts from camp sites beneath the Neolithic layer. They could provide evidence of the Kebaran occupation of 18,000-14,000 years ago. The Kebaran lived in small camps, mainly in what is now Israel, and existed by hunting and by gathering nuts and seeds. Some tiny Kebaran stone tools of high-quality, fine-grained flint were discovered during this summer's expedition. Further finds may provide valuable information on the history of the Kebaran in the area and the number of past occupations. ♦

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in St. Basil's Church
on Friday, September 21, 1990.

A peak experience

Beautiful surroundings, good teachers and eager students make for a summer school like no other.

by Jane Stirling

Residents of the picturesque village of Castel Gandolfo, 30 kilometres southeast of Rome, may have been surprised to hear rock-and-roll emanating loudly from their most famous institution one night last July.

"The people must have thought something really wild was going on inside the papal summer palace," says Professor Robert Garrison of the Department of Astronomy. The party was the last social event for 25 graduate students and their instructors attending the Vatican observatory's summer school program.

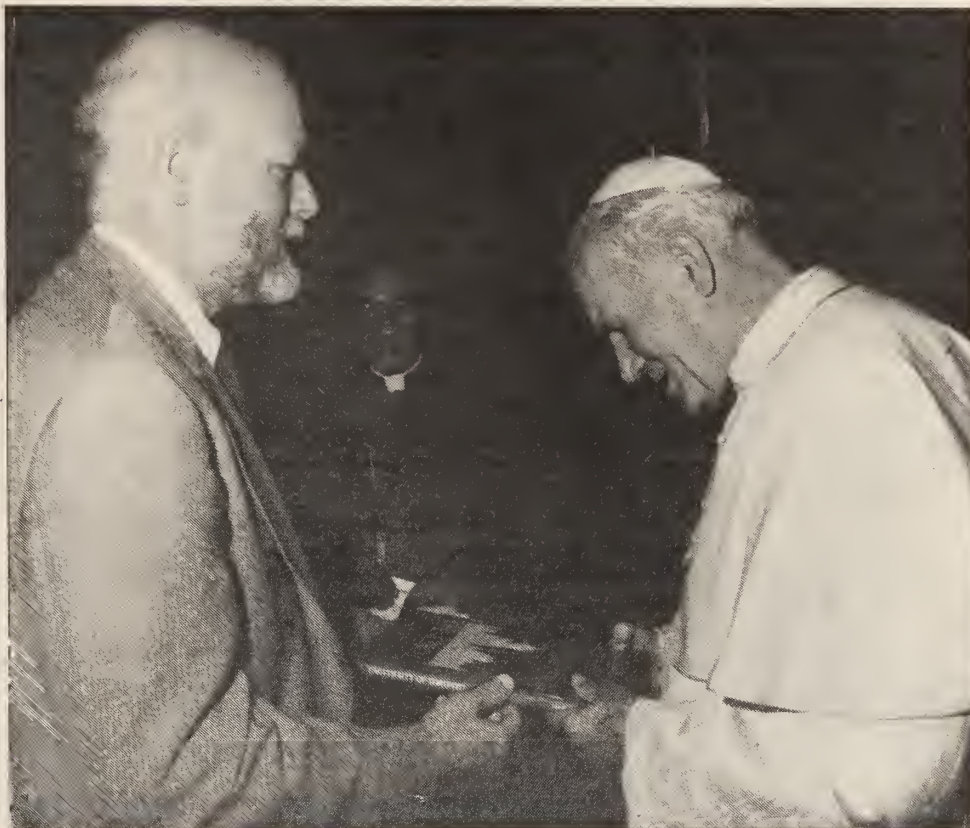
Garrison and Professor John Stocke of the University of Colorado spent five weeks at the observatory from June 9 to July 12 lecturing on the stars and galaxies.

"It was a peak experience," Garrison said. "I'd spend 12 hours a day at the palace working with the students who were all so full of energy. It was very inspiring."

Castel Gandolfo (also the name of the pope's summer residence) houses an observatory where Jesuit astronomers conduct research year-round. Since 1986 the Vatican Observatory School in Astronomy & Astrophysics has held three summer school sessions.

The students, who were selected from 125 applicants, came from Asia, Europe, Africa, New Zealand, South and North America. "We picked the ones we thought would benefit the most from the experience," Garrison said. High academic standing was the most important criterion but females and students from third world countries were given an edge.

Garrison was invited by the dean of the summer school, Chris Corbally, who holds a PhD from U of T. Corbally, a Jesuit, is an astronomer at the Vatican.



Professor Robert Garrison of the Department of Astronomy presents Pope John Paul II with *University of Toronto: A Time to Remember* during a private audience at the Vatican in July. Garrison was a faculty member at the summer school session of the Vatican Observatory School in Astronomy & Astrophysics at Castel Gandolfo, the papal summer palace. His course — "Probing the personalities of stars; the classification of stellar spectra" — was offered to visiting students from Asia, Europe, Africa, New Zealand and North and South America.

The observatory is noted for its stellar classifications — Garrison's area of expertise. One hundred and twelve years ago, Father Angelo Secchi, one of the Vatican astronomers, was the first to classify the stars according to their spectra.

"When there are billions of stars, you want a method of filtering out which are interesting to study and which are of the garden variety," Garrison said. By classifying them, scientists can determine the structure of our Milky Way galaxy.

During weekdays, students spent their mornings and afternoons in the classroom with regular and visiting lecturers. There were no translators so lectures were held in "careful" English, Garrison said. In the evenings, students went to the library for extra reading or to the observatory.

There were no tests, grades or assigned homework.

"Their enthusiasm renewed my faith in real education," Garrison said. "What struck me was that the students really appreciated the opportunity to study with good astronomers in a trusting environment. They took responsibility for their own education. I'd like to incorporate some of these principles at U of T."

On the weekends, the group went on field trips to Florence, where they saw the house in which Galileo spent the last years of his life, and the Castelli Romani "hill towns" east of Rome.

The Vatican provided a "loving, caring and supportive" environment for both staff and students, Garrison said. Accommodation, meals and field trips were paid for by the church although students were responsible for a portion of their air fare depending on their financial capabilities. The faculty was not paid for teaching but transportation and accommodation were provided.

Although Pope John Paul II was not present at his summer residence during the five weeks, the group did have a private audience with him at Vatican City. He spoke for about half an hour on the importance of research in astronomy and preserving the harmony of human beings and the universe. Afterwards he greeted each student in his or her own language. One Polish student who was getting married in August invited the pope to her wedding.

Garrison gave the pope a copy of *University of Toronto: A Time to Remember*. "He was very gracious; he flipped

through the pages and said he'd been to Toronto three times and enjoyed it very much."

“ Their enthusiasm renewed my faith in real education.”

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The *Musie & Letters of Liszt*
Alan Walker, host, Valerie Tryon, piano

Thursday, November 15, 1990, 8:00 p.m.
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Friday, February 8, 1991, 8:00 p.m.
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Tuesday, February 19, 1991, 8:00 p.m.
Klaus & Rainer Feldmann
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Friday, April 5, 1991, 8:00 p.m.
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Events

LECTURES

The Use of cDNA Expressed P-450 and Monoclonal Antibodies for Analysis of Cytochrome P-450 Dependent Reactions.

Wednesday, September 12
Harry V. Gelboin, National Institutes of Health, Bethesda.
3163 Medical Sciences Building. 4 p.m.
(Pharmacology)

Changing Rivers into the Next Century.

Monday, September 17
Prof. Kenneth J. Gregory, University of Southampton; Snider lecture. Council Chamber, South Building, Erindale College. 8 p.m.

Changing Visions of the Bard: Homers from Pope to Parry.

Monday, September 24
Prof. Oliver P. Taplin, University of Oxford; Samuel James Stubbs lecture. 140 University College. 4:30 p.m.
(UC)

COLLOQUIA

Role of Ocean in Future Climate Change.

Thursday, September 13
Prof. Syukuro Manabe, Princeton University. 102 McLennan Physical Laboratories.
4:10 p.m.
(Physics)

Aquinas and Foundationalism.

Thursday, September 20
Prof. Eleonore Stump, Virginia Polytechnic Institute. Combination Room, Trinity College. 4 p.m.
(Philosophy)

SEMINARS

A Simulation Study of Human Performance Deterioration and Mental Workload.

Wednesday, September 12
Jianqiao Liao, Department of Industrial Engineering. 211 Rosebrugh Building. 3 p.m.
(Industrial Engineering)

Events deadlines

Please note that information for Events listings must be received in writing at the *Bulletin* offices, 45 Willcocks St., by the following times:

Issue of September 24, for events taking place Sept. 24 to Oct. 9:
Monday, September 10

Issue of October 9, for events taking place Oct. 9 to 22:
Monday, September 24



Perspectives at play

Hart House Mask by Toronto sculptor Evan Penny was installed last month at the west side of the building near the main entrance to the Justina M. Barnicke Gallery. The perspective shifts — from profile to full-facial, from positive to negative — as the viewer moves. The sculpture is one of a series of five faces in conditioned concrete by the Toronto artist. The piece was selected by the house art committee and purchased with a gift from the Readers' Digest Association Ltd. and a grant from the Ontario Ministry of Culture & Communications.

Past and Elsewhere in Sophocles' Oedipus at Thebes.

Wednesday, September 19
Prof. Oliver P. Taplin, University of Oxford. 144 University College. 3:10 p.m.
(Classics)

MEETINGS & CONFERENCES

Committee on Academic Policy & Programs.

Wednesday, September 12
Council Chamber, Simcoe Hall. 4 p.m.

Global Competition and Canadian Federalism.

Saturday, September 15
This one-day conference will focus on the important challenges facing Canadian industry in light of growing global competition and the complexities of Canadian federalism. Topics: telecommunications, financial services, forestry, agriculture and labour politics. Falconer Hall, Faculty of Law. Registration is required.
Registration and information: Heather Gamester, 978-4334 or Pia Bruni, 978-5842.
(Law)

University Affairs Board.

Tuesday, September 18
Council Chamber, Simcoe Hall. 4 p.m.

Lost Civilizations of the Desert: Recent Archaeological Research in Third Millennium North Syria.

Saturday, September 22
Symposium on the occasion of the society's annual general meeting.
Excavations at Oum Qsir and a Survey of the Middle Khabur Area. 10:15 a.m.
Excavations at Ziyade. 11 a.m.
Tell Gudea, an Industrial Site? 12 noon.
Mari during the Third Millennium and the Khabur Valley. 12:20 p.m. 140 University College.
Information: 978-4790.
(Society for Mesopotamian Studies and SSHRC)

Business Board.

Monday, September 24
Council Chamber, Simcoe Hall. 5 p.m.

MUSIC

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Thursday Noon Series.

Thursday, September 13
Special screening of Rhomus Media's *The Radical Romantic* — John Weinzwieg.

Thursday, September 20
Images of Music in Three Prints by Maerten van Heemskerck; lecture by Prof. Colin Slim, University of California at Irvine.
Walter Hall. 12:10.

"Gentle airs, melodious strains."

Saturday, September 22
Renaissance, Baroque and early classical music performed by students in the Early Music Program at the Faculty of Music and the group Consort of Viols. West Hall, University College.
8 p.m.
Admission free.
(Alumni & Community Relations)

EXHIBITIONS

ROBERTS LIBRARY

Armenia: Cradle of Civilization.

To September 29
Architecture, history, art, religion, literature and costumes of Armenia, past and present. Main Display Area.
Hours: Monday to Friday, 8:30 a.m. to 12 midnight; Saturday, 9 a.m. to 10 p.m.; Sunday, 1 to 10 p.m.
(Alumni & Community Relations)

JUSTINA M. BARNICKE GALLERY, HART HOUSE

Paintings of Canadian Life in the 1930s and

1940s: A Reflection of the Times.

To October 4
Genre paintings. Both Galleries.
Gallery hours: Monday and Friday, 11 a.m. to 6 p.m.; Tuesday, Wednesday and Thursday, 11 a.m. to 8 p.m.; Saturday and Sunday, 1 to 4 p.m.

ERINDALE COLLEGE

New Colour Xeroxes.

September 23 to October 16
E.J. Lightman and Jean Teillet, installation pieces. Art Gallery.
Gallery hours: Monday to Friday, 11 a.m. to 7 p.m.; Saturday and Sunday, 12 noon to 5 p.m.

VICTORIA COLLEGE

Albert Liu.

September 24 to October 12
Oil paintings. First floor, Northrop Frye Hall.
Hours: Monday to Thursday, 9 a.m. to 9 p.m.; Friday, 9 a.m. to 6 p.m.

MISCELLANY

Carillon Concert.

Wednesday, September 12
Hart House open house and tour. Sandra Young Tangjerd. Soldiers' Tower. 4 to 4:30 p.m.

Tuesday, September 18
International Peace Day. Lloyd Abernethy. Soldiers' Tower. 12 noon to 12:30 p.m.

Associates of Erindale Book Sale.

Saturday, September 15 to Monday, September 17
Art Gallery, South Building, Erindale College.
Hours: Saturday, 10 a.m. to 4 p.m.; Sunday, 1 to 4 p.m.; Monday, 10 a.m. to 4 p.m.

SCHEDULE 1990-91

During 1990-91, the *Bulletin* will be published on the following days.

| | | | |
|--------------|-------------|----------|---------|
| September 24 | December 10 | March 4 | May 6 |
| October 9 | January 7 | March 18 | May 21 |
| October 22 | January 21 | April 1 | June 10 |
| November 12 | February 4 | April 15 | June 24 |
| November 26 | February 18 | | |

DEADLINES

Deadlines for receipt of material at the offices of the *Bulletin*, Department of Communications, 45 Willcocks St., are:

Events listings: 5 p.m., two weeks prior to the date of the paper in which they are to appear;

Editorial material: noon, 10 days prior to the date of the paper;

Advertising: Space for display advertising must be booked at least two weeks in advance of the issue in which the ad is to appear. Ad copy must be at the *Bulletin* offices no later than 10 days before the publication date.

Classified ads must be submitted in writing with payment no later than 10 days before publication date.

For information about both display and classified advertising in the *Bulletin*, please call 978-4933.

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Arts & Science Council By-Election

Nominations open on September 17 for positions on the general committee and other committees of the Faculty of Arts & Science council.

Nomination forms and a list of vacancies are available at the office of the dean, office of the faculty registrar, departments, offices of college registrars and student organizations. Completed forms must be received no later than 4:00 p.m., Friday, September 28 in order to be valid.

Classified

A classified ad costs \$13 for up to 35 words and \$.25 for each additional word (maximum 70). Your name counts as one word as does your phone number, but the components of your address will each be counted as a word. No charge for postal code.

A cheque or money order payable to **University of Toronto** must accompany your ad.

Ads must be submitted in writing, 10 days before *Bulletin* publication date, to **Nancy Bush, Department of Communications, 45 Willcocks St., Toronto, Ontario M5S 1C7**. Ads will not be accepted over the phone.

To receive a tearsheet and/or receipt, please include a stamped self-addressed envelope.

Accommodation Rentals Available — Metro & Area

Pape/O'Connor: one- and two-bedroom apartments in fully renovated triplex (new bathrooms, appliances, wall-to-wall carpeting, etc.). Bright. Garden. Quiet, safe neighbourhood. Just minutes from parks, all amenities. Parking available. Downtown 10 minutes. Priced at \$687 & \$987. 656-2828.

Casa Loma Inn (Annex). 20-room inn on very quiet street. Attractive, clean, comfortable rooms. 4-piece baths, air conditioning, TV, radio, fridge, laundry, parking. U of T, subway, restaurants, banks minutes away. Competitive daily, weekly, monthly rates. 924-4540.

Furnished bungalow, 3+1 bedrooms, 1½ baths, double garage, ravine view, excellent transportation, shopping, schools (neighbour U of T prof). Etobicoke. \$1,500/month + utilities. 621-1932.

Davenport/Christie. Charming four-bedroom house. Immediate. Two storeys, two bathrooms, sun-porch, garage. Freshly renovated, soundproofing. Excellent 24-hour transportation close. Suits family, couple plus border in separate quarters, or student group. Trees!! 921-6920, 652-8084. Messages: 926-8864.

Bloor — 5 subway stops west of University. 1-bedroom apartments in a fine old house, just renovated and handsomely furnished. Some with fireplaces. Parking. Short-/long-term rental. \$325/week. 921-7482 evenings or weekends.

Bright and spacious renovated basement apartment on Willcocks, steps from campus, full kitchen, sofa-bed; \$725/month including utilities. Alan Thomas 924-8598.

Cabbagetown luxury 1-bedroom apartment, 1350 sq. ft., upper 2 floors, 5 appliances, 5-piece bathroom, large south-facing deck with great downtown view. Must be seen! Tony 925-0895.

West end, near subway. Available December 1 (flexible) for 6-10 months. Furnished, large 4-bedroom, 3-bath house. Main-floor family room and den, 2 fireplaces, security, air, garage. Good area, close to everything. \$1,650/month. Maureen 944-0648.

Long- or short-term rental. Immaculate 3-bedroom house near Bayview & Davisville. Updated throughout, appliances, fenced garden (pets O.K.). Quiet street close to shopping, TTC, school. \$1,400 + per month. 485-7735.

Bayview & Moore (8 minutes from St. Clair & Yonge subway). Spacious basement apartment in quiet home. \$550 per month. 421-4344 evenings & weekends.

Royal York/Bloor subway. Newly renovated, lower level, furnished. Non-smoker, no pets. \$600/month. Call Marg 236-1241.

Bachelor apartment, spacious, partially furnished. 15 minutes from U of T. Includes laundry facilities, garden, parking, TV. \$700/month. Suit one person. 534-6747.

High Park unfurnished. Two-bedroom, bright, spacious top floor above tailor shop. Appliances, laundromat across street. Responsible adults, references. Reasonable. Call Milan 10:00 — 6:00, Monday to Saturday, at 533-6614.

High Park furnished. 2-bedroom, carpeted, a/c, cheerful, above bookshop. Non-smoking responsible adults, references. On streetcar line. Reasonable. Call Kathy 10 a.m. — 6 p.m., Monday to Saturday, at 532-1350.

At St. Clair/Walmer Road. Luxury furnished executive one-bedroom apartment. All amenities, convenient for shopping & transportation. November — May. \$1,100 monthly. References. 921-9682, 449-3364.

For rent from October 1st. Furnished house in Bennington Heights. Charming, bright and sunny. 3 plus bedrooms, appliances, garden. Transportation — TTC and possible car rental. School nearby. Suit family. 425-0453.

Annette/Jane. 560 Willard Avenue. 2-bedroom upper duplex. Deck. Adult professional preferred. No pets. References. Phone 761-9745.

Church/Isabella. Furnished high-rise two-bedroom available November 1 to April 30 to responsible non-smoking faculty member. Underground garage. 920-3735.

Bathurst & Eglinton. Bed-sitting room, private entrance and kitchen, shared bath, on main

floor, central air, non-smoker, 5 minutes from subway. Available September 15. \$500 monthly. 783-3165, 781-6718.

Beaches. Charming 3-bedroom house, renovated, 5 appliances, private garden, close to TTC, schools, etc. October 15. \$1,300 +. Days 924-6124, evenings 462-0459.

Harbourfront sublet from October to May or longer. Furnished 1-bedroom. \$1,000/month +. Call 260-1305.

Two-bedroom apartment for rent October 1. Parking for two, 2-minute walk to Broadview subway, unfurnished, automatic washer in apartment, yard. Minimum stay 8 months. \$980/month, utilities included. Call 463-2390.

Bloor West, Kingsway area. November through March. Executive home, 3800 sq. ft., on half acre. Overlooks ravine and city. Fully furnished, 3 bedrooms, 2½ baths, rec room, sun-room, den, office, garage. Includes TVs, VCR, fax and computer. Owner asthmatic, away for winter, must be no smoking or pets. Seeking tenant who would be careful of beautiful, valuable home. Rent negotiable. 236-2359.

Upper duplex (2nd & 3rd floors), 2 bedrooms, den, broadloom, laundry, deck. Three blocks from subway, park, good shopping. Available October 1. \$985 (utilities included). 463-1919 or 465-5816.

Large immaculate apartment. 2 bedrooms. Central, on subway line. Parking, air-conditioned, garden. Next to park and tennis courts. Available from September 25. References. \$1,200. 781-2568, 923-9300.

Furnished one-bedroom cottage in Beaches. Close to TTC, park, library, stores, lake. Suit couple or single. October 26 — May. \$750 + utilities. 699-4794.

Sublet furnished 1-bedroom apartment, Sherbourne/Wellesley, 3 months starting October 8. \$600/month. Non-smoker. 925-2975.

Sunny ground-floor bachelor in stately house. Oak panelling. Furnished possible. Private entrance, eat-in kitchen, private deck, full-size fridge, stove, heated porch, stained glass windows, high ceilings, oak floors, carpet. Minutes to High Park and subway to St. George. Non-smoker only. \$595/month. Renewable academic-year lease. 533-0063.

Furnished apartment. Bathurst & Finch. Furnished, 2 bedrooms, 2 baths, air-conditioned, full balcony, laundry room, utilities included. Parking available. \$1,495/month. Immediate occupancy. Contact David at 254-0432, ext. 325.

Bloor West Village (Jane subway). Spacious, detached 3-bedroom house for rent, two bathrooms, finished basement,

air-conditioned, garage, garden, wonderful neighbourhood. 10 minutes to downtown by car, close to TTC. \$1,300 plus utilities. Available August 1. Phone 767-6884.

Yonge/Lawrence, bright, new, large 1-bedroom basement suite. \$750/month. 30 minutes to U of T. 480-2244.

Spacious two-bedroom upper duplex in High Park. Exquisite kitchen, hardwood floors, fireplace, central air, laundry, dishwasher. Steps to subway. Non-smokers, no pets. \$1,295/month plus utilities. Phone 769-2239.

Annex, faculty sabbatical rental. Close to U of T & hospitals. Beautifully furnished two-bedroom apartment on main floor of triplex. Living-room, dining-room, kitchen & bathroom, parking, laundry, park view. October 1. 467-9696.

Room for rent, 10-minute walk to Pape subway. Furnished, freshly painted. Women only. \$350 per month. First and last in advance. Call 465-9622.

Two-bedroom apartment for rent. Available October 1. 2-minute walk to Broadview subway. Unfurnished. Automatic washer in apartment. Backyard, parking for two, carpeted. Prefer tenancy at least until May 1. Also prefer upper year or graduate students. Call 463-2390.

Accommodation Rentals Required

Dean of Engineering from New Zealand seeks furnished accommodation from January 1 to June 30, 1991. Two bedrooms minimum, house or apartment, fully equipped, near public transportation, preferably near the University. Contact Professor James 978-3049.

Furnished efficiency or bachelor apartment near U of T. January 1 — June 30 for sabbatical stay. Responsible, good housekeeper. (203) 789-7417 weekdays, (203) 389-2974 evenings.

Accommodation Shared

Broadview and Danforth. Transit. Large house, quality renovation, smoke- and pet-free. For one person: entire 3rd floor, 2 large rooms, unfurnished, skylights and minibar. \$650. Also 9' x 12' bedroom/office with private deck over backyard, newly furnished. Ideal for visiting professor or doctoral student. \$450. Considerate and organized housemate wanted. Share entire house. Includes cleaning, air conditioned. Available immediately. Ken Shepard, Ph.D. 463-0423.

Privacy available immediately. Furnished bedroom, separate study & private bathroom in Unionville executive home at 404 & 7. Share kitchen, nook, family room, laundry & garden with professional couple & small, loving older dog. Suit faculty or grad student. Negotiable term. \$500; with parking/garage \$525. Call 477-6227.

House to share near Beaches. Short-term (September 1 to December 31, approximately). 1 or 2 women, to share with owner, own rooms, fully furnished, hardwood and marble floors, laundry facilities, utilities included. \$675/month each. Call Carol 690-3213.

Annex — will share home with single mature woman, owner away for extended periods. Garden. Non-smoker. \$500 plus shared utilities. 533-0809.

High Park, responsible non-smoking female, large 2-bedroom, top floor of house, laundry, backyard, quiet neighbourhood, 5 minutes to TTC. First and last. \$550 +. 762-1463.

Eglinton & Keele. 1 bedroom in very clean, quiet home. Share kitchen and bathroom with one person only. Ready immediately. \$325 per month. TTC at door. 656-4815, leave message.

50 Prince Arthur (St. George subway). Large, sunny, luxury apartment (doorman). Seeking 3rd roommate, non-smoking. \$527. Work 975-6384, home 324-9597.

High Park, share bright 2-storey 2-bedroom apartment with open-minded, creative performing artist with eclectic interests, straight male, 34. Deck, piano, harpsichord, antiques, subway. Non-smoker, sense of humour, no TV or pop culture addicts please. Available now, \$485 inclusive. 604-1342.

Accommodation Overseas

Lake Lugano, Switzerland. One-bedroom apartment in a historic village on the border between Switzerland and Italy, facing lake and mountains. Fully furnished for short-term rentals. 243-0106.

Houses & Properties for Sale

Bathurst/Harbord. Walk to U of T! Classic Annex brick four-bedroom, laundry, open living/dining, fireplace, eat-in kitchen, sliders to deck, two-car garage. Was \$399,000, now \$349,900! Laurie Benson, Neil N. Wright Real Estate Ltd., 961-1698.

Major Street — \$319,000. Detached 3-storey duplex. Lower renovated 2-bedroom, \$1,100/month plus hydro. Upper 3-bedroom owner's, needs work but look at the price! Laurie Benson, Neil N. Wright Real Estate Ltd., 961-1698.

Easy access to York U. \$199,900. Regal Heights 38% co-ownership gives 3-bedroom unit on 2nd floor, garden, parking, laundry, plus basement rental covers some expenses. Laurie Benson, Neil N. Wright Real Estate Ltd., 961-1698.

Bed & Breakfast

Bed and breakfast in our restored home minutes to U of T. From \$45 daily. Furnished one-bedroom self-contained apartment available for longer stays. Ashleigh Heritage Home 535-4000.

Vacation/Leisure

BACKPACK CANADA, UNITED STATES, PERU & NEPAL. Adventureous backpacking treks through the Ocala National Forest in Florida, in the magnificent Canadian Rockies, the Grand Canyon in Arizona, the Appalachians during the autumn colour season, hut hopping in the White Mountains of New Hamp-

shire, the Andes Mountains of Peru (including Machu Picchu), and Nepal (the Annapurna Sanctuary). We have some trips where we hike out daily from base camps. No experience is necessary. Request brochure. WIL-LARDS ADVENTURE CLUB, Box 10, Barrie, Ontario, Canada L4M 4S9. (705) 737-1881.

Quebec condo/chalet. Located in St. Sauveur, 5 hours from Toronto. Fully furnished, fireplace, sleeps 8, 5-minute walk to ski slopes, 40 minutes from Mt. Tremblant. Excellent dining, boutique shopping & golfing. Available September 1990 through August 1991. Call Carol Hume 978-1733 for weekly rates.

Miscellaneous

Victoria B.C. Real Estate. Experienced, knowledgeable realtor with university faculty references. Will answer all queries and send information about retirement or investment properties in Victoria. No cost or obligation. Call (604) 595-3200 or write Lois Dutton, RE/MAX Ports West, 3200 Shelbourne Street, Victoria, B.C. V8P 5G8.

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ACCENT NEED ADJUSTMENT? Communication enhancement classes forming with "accent" on formation and production of the English sound system, pronunciation and intonation patterns. Now in its 6th year. Over 900 satisfied graduates attest to its value. Groups of 6-8 participants. Gandy Associates 767-6691.

REPROD, LTD. is seeking healthy males including minority ethnic groups to participate in an ongoing study on evaluation of factors influencing sperm cryopreservation and therapeutic donor insemination. Those interested please call 537-6895.

Singers. The Toronto Camerata, the city's only *cappella* chamber choir, seeks experienced singers with good blending voices and superior musical skills for the coming season. Rehearsals Wednesday evenings. Call Arthur Wenk at 851-6482 to reserve an audition time.

Piano for sale: Mason and Risch, apartment size, in new condition, bench included, \$1,750, one-half of current new price. (Reason: just retired and moving to smaller house.) 922-1357.

Natural wicker furniture for sale. Ideal for a student's apartment. Loveseat, coffee table, two end tables, peacock chair, buffet, plant stand. Never been used! A great buy \$210. Call Denise 764-0125.

GREAT DEAL! New fax machine, never used. \$600 (no tax). 978-4698.

Articles for sale, brand-new, never-used, 20" colour TV, VHS VCR, microwave, walkman, tape recorder, clock radio and stereo double-deck radio blaster. Call 922-6811.



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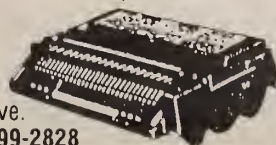
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COUNCIL OF THE SCHOOL OF GRADUATE STUDIES NOTICE OF BY-ELECTION STUDENT NOMINATIONS OPEN

Nominations are now open for candidates to fill student seats left vacant following the Spring 1990 elections, as follows: Div. I (2 seats), Div. II (2 seats), Div. III (3 seats), Div. IV (2 seats). These seats are open for a two-year term. Nomination forms may be obtained at any Graduate Department office, the Graduate Students' Union, or the School of Graduate Studies. The deadline for receipt of nominations in the office of the Secretary to Council, School of Graduate Studies, 65 St. George Street, is 12:00 noon, Friday, September 28/90. No nominations can be accepted after that date.

CONSTITUENCIES

DIVISION I - The Humanities (2 seats to be filled)

Classical Studies
Comparative Literature
Drama
East Asian Studies
English
French Language & Literature
Germanic Languages & Literatures
History
History of Art
History & Philosophy of Science
and Technology
Italian Studies
Linguistics
Medieval Studies
Middle East & Islamic Studies
Museum Studies
Music
Near Eastern Studies
Philosophy
Religious Studies
Slavic Languages & Literatures
South Asian Studies
Spanish & Portuguese

DIVISION III - The Physical Sciences (3 seats to be filled)

Aerospace Science & Engineering
Architecture
Astronomy
Biomedical Engineering
Chemical Engineering & Applied
Chemistry
Chemistry
Civil Engineering
Computer Science
Electrical Engineering
Environmental Engineering
Environmental Studies
Geology
Industrial Engineering
Mathematics & Applied Mathematics
Mechanical Engineering
Metallurgy & Materials Science
Physics
Statistics
Theoretical Astrophysics

DIVISION II - The Social Sciences (2 seats to be filled)

Anthropology
Criminology
Economics
Education
Geography
Industrial Relations
International Studies
Law
Library & Information Science
Management
Master's in Teaching
McLuhan Program in Culture and
Technology
Planning
Policy Analysis
Political Science
Russian & East European Studies
Social Work
Sociology
Urban & Community Studies

DIVISION IV - The Life Sciences (2 seats to be filled)

Aging
Anatomy
Biochemistry
Botany
Clinical Biochemistry
Community Health
Dentistry
Forestry
Immunology
Medical Biophysics
Medical Science
Microbiology
Molecular & Medical Genetics
Nursing
Nutritional Sciences
Pathology
Pharmacology
Pharmacy
Physiology
Psychology
Speech Pathology
Zoology

Research Notices

For further information and application forms for the following agencies, please contact ORA at 978-2163.

Grant Applications to be Administered by the University of Toronto
Investigators are advised to review the current agency guidebooks for recent changes in policies and/or application procedures before completing their applications. Use the most recent application forms for the appropriate agency program. Old forms may not be accepted.

Many agencies now require specific certification for research involving human subjects, vertebrate animals or biohazardous material. Please read agency guidelines carefully. ORA 2, 3, 10, and animal protocol forms are internal University documents only and should not be used as confirmation of approval. Where an agency does not have its own form, ORA will supply a statement (upon request) for this purpose at the time of application.

New applications from health sciences and pure and applied sciences with a value of \$200,000 or more per annum and from the humanities and social sciences with a value of \$100,000 or more per annum require a "resources implications brief" signed by the appropriate dean or principal. This letter must accompany the application when it is submitted to ORA. Information on the content of the brief may be found in the ORA information booklet.

Individual departmental or faculty conditions regarding applications should be accommodated before submission to ORA. Except in specific published instances where there are internal ORA dates, all applications are reviewed on a first-come, first-served basis.

All the necessary signatures must be obtained prior to bringing the application to ORA. Investigators are reminded that, where a grant is to be administered by the University, the University signature must be appear on the application, whether or not the agency requires an institutional acknowledgment. Signature requirements may include chair/director, dean, hospital executive officer, college principal, co-investigator, computer approval (Faculty of Medicine) and others. Consult the ORA booklet Information: Research Policies and Procedures, which is available from departmental assistants and ORA.

Please bring to ORA the original application for University signature plus ONE copy for University retention. Clipped to the copy should be a completed ORA 5 plus, where applicable, ORA 2 (animals), ORA 3 or 7 (humans) or ORA 10 (biohazards). Also include with the application a telephone number for questions and notification of pick-up, delivery of the application to the sponsoring agency is the responsibility of the investigator. The review process for planning and resources approval and large applications is more detailed and the turnaround time for signature will

be longer than for other submissions. No appointments for review and signature can be accepted.

For questions on grant application in the medical and medically related areas, contact Susan Haggis; for pure and applied sciences, contact Liz May; for social sciences and the humanities, contact José Segouin.

American Lung Association

The ALA will support basic and applied research exploring the respiratory system in health and illness; new avenues of clinical, epidemiological, behavioural, investigations relevant to lung disease; and advanced professional training for specialized physicians, nurses, other scientists and educators.

Eligible applicants must be US citizens in Canadian institutions or Canadian citizens training in US institutions.

Deadline for all personnel awards: October 1;
for all research grants: November 1.

The Bickell Foundation

The University has been informally advised the foundation will no longer consider applications in non-medically related areas. While this decision has not yet been ratified by the foundation's committee, if confirmed, the policy will be in effect for the final 1990 Bickell competition.

The Child, Youth & Family Policy Research Centre

The centre invites proposals for policy research in two theme areas: child, family and state; and work and family. Up to \$5,000 will be available for a policy research paper and up to \$25,000 for a small-scale research project. Applications may be submitted at any time, but projects funded under these themes must be completed by March 31, 1992.

The Human Frontier Science Program

The Human Frontier Science Program is a Japanese initiative to promote international cooperation in basic research in two areas, brain function and molecular approaches to biological functions.

ORA has been advised by MRC that the council no longer acts on behalf of HFSP. The head office has now been established in Strasbourg, France, and contact will be through that office. ORA has requested from HFSP confirmation of Canada's eligibility for 1990-91 and copies of current guidelines and application forms if appropriate. However, it is possible that the material may not be received in good time for the current competition deadline of September 28.

Interested investigators are therefore advised to contact HFSP directly at: The Human Frontier Science Program, Tour Europe, 200 Place des Halles, Strasbourg, France 67000. FAX 011 33 88 32 88 97, for the attention of Sir James Gowans, Secretary General.

Juvenile Diabetes Foundation of Canada

The Milton S. Petrie new training for established scien-

tists award has been established to provide support for visiting scholars while undertaking special studies or to acquire experience and training in a scientific field different from, but related to, the area in which they presently work.

The award has either a six month or 12-month term commencing July 1 and concluding Jan. 1, 1993. Deadline is October 1.

Kidney Foundation of Canada

The foundation has announced the premier research awards program to promote research in nephrology and urology. Two awards will be funded every year, one for patient-related research, the other for basic sciences, each with a value of \$100,000 per year for a maximum of three years to commence July 1991. Deadline is October 15.

Multiple Sclerosis Society of Canada

Investigators are reminded that the society provides an ethical review statement (form MSSC-6) which must be completed and submitted with research grant applications for a clinical study. Please allow sufficient time to obtain the signatures required before the application is submitted to ORA for University signature.

The application forms for post-doctoral fellowships (MSSC-2) and research grant (MSSC-1) application have been revised for 1990. Please ensure that the most recent forms are used for each program. Deadline for all program applications is October 1.

National Research Council of Canada

The Steacie prize is awarded annually to a person up to 40 years of age for outstanding scientific work in a Canadian context. Nominations may be made by individuals or by groups and letters of nomination should be accompanied by a brief statement, a biographical summary and a list of publications. The material should be forwarded directly to NRC by October 1.

Ontario Mental Health Foundation/Alzheimer Association of Ontario

A special competition has been announced to support research on the treatment and care of patients with senile dementia of the Alzheimer's type. Applicants should use the OMHF research grants information guidelines and forms. Deadline is October 12.

Ontario Ministry of Health

The ministry has announced that funds up to \$15 million over the next decade will support a rehabilitation technology research and development consortium based at one Ontario university (including Ryerson Polytechnical Institute). The consortium will comprise multidisciplinary teams engaged in research in the areas of orthotics and prosthetics; mobility and seating; hearing; and communication and vision. At least one partner agency actively involved in rehabilitation and at least one voluntary organization representing consumers of rehabilitation services will be involved with each team.

The ministry will provide funding for five years for up to two-thirds of the total costs; the remaining third must be provided by partners, industry, the sponsoring institution or other sources. Subject to satisfactory progress, support may be renewed for an additional five years.

Investigators should note that the initial letter-of-intent

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process is treated as a grant application and must follow the usual University signature requirements, have ORA attachments and a planning and resources letter where applicable. Please consult ORA for the appropriate levels of overhead to be included in the budget. Arrangements for the signature of the vice-president (health sciences) on the letter of intent will be handled by ORA. Investigators are requested to allow ORA at least five working days prior to the deadline for this part of the application procedure. Deadline is *October 1*.

Social Sciences & Humanities Research Council
The Bora Laskin national fellowship in human rights research encourages research and the development of expertise in the field of human rights. It is awarded annually for 12 months with a stipend at \$45,000 and \$10,000 for travel and research. Deadline is *October 1*.

University of Toronto Humanities & Social Sciences Committee of the Research Board
International conference travel grants to a maximum of \$2,000 are available towards the cost of travel and accommodation for presentation of a formal paper at international scholarly conferences held outside Canada and the United States. Deadline is *September 15*.

Short Course on Animal Care
This one-day course is mandatory for new graduate students, research technicians, research assistants/associates and post-doctoral fellows involved in handling and use of animals. Existing staff are encouraged to register and attend as well.

The course will begin in the fall and will be provided at the Medical Sciences Building (medical facilities), Ramsay Wright Zoological Laboratories (biological science facilities, St. George campus), Erindale and Scarborough Colleges.

To register, please contact the following individuals as soon as possible: medical facilities — Carol King, Division of Comparative Medicine, 978-7746; biological sciences facilities (St. George campus) — Larry Craig, Department of Zoology, 978-3494; Erindale/Scarborough — George Harapa, University veterinarian, 978-6423 or Pat Snyder, ORA, 978-2163.

Location and dates for the course and course outlines will be provided to registered individuals at a later date. There is no registration fee.

Upcoming Deadlines
Alcoholic Beverage Medical Research Foundation — research grants: *September 15*.

American Lung Association — personnel awards: *October 1*; research grants: *November 1*.

Amyotrophic Lateral Sclerosis Association (US) — letter of intent: *September 15*.

Arthritis Society — research scientists; research scholarships; clinical investigators; research fellowships; Lupus fellowship; group facilitation grants (letter of intent): *September 15*.

Asthma Society of Canada — research grants: *September 15*.

Cancer Research Institute (US) — fellowships: *October 1*.

Canadian Cystic Fibrosis Foundation — fellowships; pre-doctoral studentships; research grants; scholarships; visiting scientists; cystic fibrosis clinic incentive grants: *October 1*.

Canadian Foundation for Ileitis & Colitis — clinical research fellowships: *October 31*.

Canadian Paraplegic Association/Man In Motion — re-

search grants: *September 15*.

Child, Youth & Family Policy Research Centre — research project: *any time*.

Cutter Biological/Canadian Red Cross — (transfusion medicine) full application: *October 1*.

Easter Seal Research Institute — fellowships; project grants; research training grants: *October 15*.

Parker B. Francis Foundation — (pulmonary) fellowships: *September 15*.

Hannah Institute — (history of medicine) publication program: *October 1*.

Health Innovation Fund/Premier's Council — research grants: *October 1*.

Health & Welfare Canada (NHRDP) — AIDS research: *September 15*.

Hospital for Sick Children Foundation — research grants; conferences and audio-visual production: *October 1*.

Human Frontier Science Program — research grants: *September 28*.

International Union Against Cancer — E. Roosevelt international cancer fellowships; international fellowships: *October 1*.

Juvenile Diabetes Foundation of Canada/US — M. Petrie visiting scholar; career development; post-doctoral fellowships: *October 1*.

Kidney Foundation of Canada — premier research awards, research grants: *October 15*.

Leukemia Society of America — scholarships; fellowships: *October 1*.

Lindberg Foundation — (individual and environment) research grants: *October 16*.

Malignant Hyperthermia Foundation — research grants: *October 15*.

March of Dimes (US) — basic research grants: *October 1*.

MRC — operating (new); equipment; maintenance (new); development grants; scholarships: *September 15*; university/industry jointly sponsored program

scholarships: *September 15*; multi-user equipment; maintenance for multi-user equipment; dyskinesia and torticollis; MRC group (new and renewal full applications); medical education; visiting scientists; international exchanges: *October 1*;

university/industry operating grants; clinical trials; visiting programs; research chairs; workshops: *October 1*; NHRDP/MRC joint development in nursing (letter of intent): *October 31*.

Multiple Sclerosis Society of Canada — career development; post-doctoral fellowships; studentships; research grants: *October 1*.

National Institutes of Health (US) — new research grants: *October 1*.

NRC — Steacie prize nominations: *October 1*.

NSERC — women's faculty awards: *September 21* at ORA.

Ontario Mental Health Foundation — research and major equipment grants: *September 28*; MCSS research: *October 12*.

Ontario Ministry of Health — rehabilitation technology (letter of intent): *October 1*.

Social Sciences & Humanities Research Council — Bora Laskin fellowship; post-doctoral fellowship: *October 1*; major research grant; research grant and strategic grants: *October 15*.

U of T, Humanities & Social Sciences Committee of the Research Board — conference grants: *September 15*; l'Anson fund professorships: *September 20*;

W. Garfield Weston Foundation — (neurology and nutrition) research grants: *early autumn*.

Whitaker Foundation — (biomedical engineering) full application: *October 15*.

Graduate faculty please call the PhD oral examination office at 978-S2S8 for information regarding time and location for these listings.

Tuesday, September 11
Bernard David Robert, Department of Physics, "Transverse Dynamics in Nonlinear Optics: A Study of Illuminated Planar Systems." Prof. J.E. Sipe.

Wednesday, September 12
Alexander Chan Pong Loui, Department of Electrical Engineering, "A Morphological Approach to Moving-Object Recognition with Applications to Machine Vision." Profs. A.N. Venetsanopoulos and K.C. Smith.

Zahra Isa Al Zeera, Department of Education, "Evaluation of the Orientation Program at the University of Bahrain: A Sociocultural Perspective." Prof. L.D. McLean.

Thursday, September 13
Anne Valerie Thomas, Department of Geology, "The Composition and Significance of Solid-Liquid-Vapour Inclusions from the Tanco Zoned Granitic Pegmatite, S.E. Manitoba." Prof. E.T.C. Spooner.

Aiming Li, Department of Botany, "The Suppression of Wall Modifications in *Phaseolus Vulgaris* CV. Pinto Leaves by *Uromyces Appendiculatus*." Prof. M.C. Heath.

Friday, September 14
Anne Gougos, Department of Immunology, "Characterization of a Novel Surface Protein of Endothelial Cells and Pre-B Leukemic Cells." Prof. M. Letarte.

Hang Li, Department of Metallurgy & Materials Science, "Hydrogen Behaviour in Arc Welding." Prof. T.H. North.

Wai Tung Ng, Department of Electrical Engineering, "SIN-FETs in Power Integrated Circuits." Prof. C.A.T. Salama.

Doug Dragan Perovic, Department of Metallurgy & Materials Science, "Electron Microscopy of Silicon-Based Multilayer Heterostructures." Prof. G.C. Weatherly.

William G.P. Rawling, Department of History, "Tactics and Technics: Technology in the First World War; the Canadian Experience, 1914-1918." Prof. D. Morton.

Karen Alicia Weisman, Department of English, "Imageless Truths: Shelley's Poetic Fictions." Prof. M.T. Wilson.

Daniel Harrison Williams, Centre for Religious Studies, "Nicene Christianity and Its Opponents in Northern Italy: An Examination of Late 4th-Century Anti-Arian Polemics and Politics with Particular Emphasis on the Early Career of Ambrose of Milan." Profs. T.D. Barnes and J.E. McWilliam.

Monday, September 17
Henry Edward Frania, Department of Zoology, "The Genus *Eustilicus* Sharp, Middle American Beetles of Mid-Elevation Forests: Taxonomy, Phylogeny and Zoogeography (Staphylinidae: Paederinae: Paederini)." Prof. G.B. Wiggins.

David Wayne Hillock, Faculty of Social Work, "The Social Adjustment of Female Lone Parents: A Social Relations Model." Prof. S. Neysmith.

Tuesday, September 18
Shi Chung Fung, Department of Electrical Engineering, "A

Novel Angular Discriminator for Spatial Tracking in Laser Space Communications." Prof. Y.L. Yen.

Peter Lowell Nichols, Department of Political Science, "Aristophanes and Euripides: The Poetic Education of the Citizen." Prof. C. Orwin.

Philip Daniel Osborne, Department of Geography, "Suspended Sediment Transport on Barred and Non-Barred Beaches." Prof. B. Greenwood.

Li Qiu, Department of Electrical Engineering, "Tools for Quantitative Stability Robustness Analysis." Prof. E.J. Davison.

Mary Sopka, Department of Medical Genetics, "The Role of RNA Polymerase II — Binding Proteins in Transcription." Prof. J.F. Greenblatt.

Wendy Lynn Tamminen, Department of Immunology, "An Investigation of the Class I Major Histocompatibility Complex-Restricted Target Structures Seen by Cytotoxic T Lymphocytes." Prof. B.H. Barber.

Wednesday, September 19
Bram Kirshner, Department of Community Health, "An Effectiveness and Equivalence Trial Evaluating Compliance of Eating Establishments to Public Health Regulations." Prof. P.N.J. Corey.

Xiaomao Li, Department of Biochemistry, "Structure-Function Relationship of Antifreeze Polypeptides from Ocean Pout (*Macrozoarces americanus*)." Prof. C.L. Hew.

Michael Ducharme, Department of Physiology, "Effective Insulative Properties of the Human Forearm Tissues." Prof. M.W.M. Radomski.

Peter Ain Pahapill, Department of Physiology, "Regulation of Potassium and Chloride Channels in Normal Human T Lymphocytes." Prof. L.C. Schlichter.

Friday, September 21
Pauline Thasia Barber, Department of Anthropology, "Resignation and Resistance: The Cultural Context of Fish Processing Work in Glace Bay, Nova Scotia." Prof. S.B. Philpott.

José Luis Carvalho, Department of Civil Engineering, "Poroelectric Effects and Influence of Material Interfaces on Hydraulic Fracture Behaviour." Prof. J. Curran.

Gordon Harrison Cleveland, Department of Economics, "Choice of Child Care Arrangements by Working Women: Canadian Evidence." Prof. M.H. Gunderson.

Edwin Ghahramani, Department of Physics, "Electronic and Optical Properties of Bulk Semiconductors, Superlattices, and Alloy Semiconductors."

PhD Orals

Prof. J.E. Sipe.

J.F. Paul Laverdure, Department of History, "Canada on Sunday: The Decline of the Sabbath, 1900-1950." Prof. J.S. Moir.

William James Montelpare, Department of Community Health, "The Relationship between Symptom Reporting and Measures of Stimulus Detection, Stimulus Appraisal and Stimulus Tolerance." Prof. P.N.J. Corey.

Robert George Morenz, Department of Computer Science, "On the Complexity of Link Separability." Prof. R.A. Mathon.

Karen Elizabeth Smythe, Department of English, "Late Modern Works of Mourning: The Elegiac Fiction of Mavis Gallant and Alice Munro." Prof. L. Hutcheon.

Jacqueline F. Stanley, Department of Immunology, "Early Biochemical Events Associated with IL-2 Secretion in T-Lymphocytes." Prof. R.M. Gorczynski.

Monday, September 24
Godelieve Deblonde, Department of Physics, "Models of Ice Age Climate." Prof. W.R. Peltier.

Gerard Richard Llanos, Department of Chemical Engineering & Applied Chemistry, "Effect of Immobilized Polyethylene Oxide on the Thrombogenicity of a Poly (Vinyl Alcohol) Hydrogel." Prof. M.V. Sefton.

Darryl Anne Simmons-Tropea, Department of Community Health, "Risk Factors for Change in Functional Status of Elderly Subjects." Prof. R.W. Osborn.

Tuesday, September 25
Maureen Anne Carswell-Opzoomer, Department of

Community Health, "The Measurement of Function and Social Function in a Community of Sample Persons with Alzheimer's Disease." Prof. M.R. Eastwood.

Susan Mary Davies, Department of Psychology, "Hemispheric Symmetry in Psychophysical Transduction." Prof. M. Moscovitch.

Robert Dinapoli, Department of English, "Preaching and Poetry in Anglo-Saxon England." Prof. R.A. Frank.

Wednesday, September 26
Evelyn Corcos, Department of Education, "The Processing of Orthographic Information by Good and Poor Readers in Grades Two, Four and Six." Prof. D.M. Willows.

Thursday, September 27
Stephen Vernon Boechler, Department of Education, "The Process and Experience of Entering Treatment for Men Who Have Been Violent in Their Relationships with Women: Implications for Social Policy." Prof. J. Wine.

David Anthony Checkland, Department of Philosophy, "Wittgenstein and Davidson: Meaning and Agreement." Prof. L.W. Ferguson.

Javier Alberto Ibanez-Noe, Department of Philosophy, "Freedom and Modernity: An Interpretation of Ernst Junger's Theory of the Modern Age." Prof. G. Nicholson.

Kelley McCarthy Spoerl, Centre for Religious Studies, "A Study of the *Kata Meros Pistis* by Apollinarius of Laodicea." Prof. R. Sinkewicz.

Haixiong Zhao, Department of Metallurgy & Materials Science, "A Transmission Electron Microscope Study of Ni₃W Precipitates in a Ni-37 wt % W Alloy." Profs. G.C. Weatherly and K.T. Aust.

Positions Elsewhere

Notice of the following vacancies has been received by the Office of the President.

Athabasca University
Vice-President, Academic
Applications should be sent to: Mr. Brian Gazley, Director, Human Resources, Athabasca University, Box 10,000, Athabasca, Alta. T0G 2R0

University of Manitoba
Vice-President, Academic/Provost
Applications should be addressed to: Dr. Arnold Naimark, President, Room 200, Administration Building, University of Manitoba, Winnipeg, Man. R3T 2N2

Sir Sandford Fleming College
Vice-President, Academic
Applications should be addressed to: Ms Anne Hubbell, Anne Hubbell & Associates, 79 Ridout St. S., London, Ont. N6C 3X2

University of Regina
President, Luther College
Applications should be sent to: Mr. Kim Thorson, Q.C., Chair, Search Committee, Luther College, University of Regina, Regina, Sask. S4S 0A2

University of Northern British Columbia
President
Correspondence should be addressed to: W. Murray Sadler, Q.C., Chairman, Interim Board & Presidential Search Committee, Box 1950, Station A, Prince George, BC V2L 5E3

University of South Carolina
President
Further information available from: University of South Carolina, Presidential Search, c/o Thomas L. Stepp, Secretary, Board of Trustees, Osborne Building, University of South Carolina, Columbia, SC 29208

Review Committee

Institute for the History & Philosophy of Science & Technology

A committee has been established to review the Institute for the History & Philosophy of Science & Technology. Members are: Professor M.R. Maniates, associate dean, Division I, School of Graduate Studies (*chair*); Professors C.M. Grisé, Department of French Language & Literature; Janis Langins and T.M. Levere, Institute for the History & Philosophy

of Science & Technology; J.R. Webster, Centre for Medieval Studies and Department of Spanish & Portuguese; R.J. Helmstadter, Department of History; and André Gombay, Department of Philosophy; and Helen Vreugdenhil, graduate student; and Nancy Gottschalk, School of Graduate Studies (*secretary*).

The committee would be pleased to receive comments or submissions from interested persons. These should be forwarded by *October 1* to Professor M.R. Maniates at the School of Graduate Studies, 63 St. George St.



The students of the 1960s broke barriers, but the gains are not yet secure.

Beyond Progress

Since I graduated from the University of Toronto in 1970, I have seen a Charter of Rights & Freedoms promulgated and extolled as the supreme law of the land, a revolution in men's and women's expectations, a request by this country's minorities for a revised social contract and, in general, a desire to retain relevant values and discard inhibiting ones. And while I have seen a discouraging, albeit explicable, backlash to these changes, I have also seen more progress in one generation than such rapid change might entitle us to expect.

I remain fully optimistic that with the contribution of graduates of U of T and elsewhere, change will continue in the right direction, and that the restless transition that has been my generation will evolve into the settled and secure opportunities of the next. But this will not happen in the absence of commitment, hard work and a willingness to learn from past victories and past mistakes.

I was at the University from 1964 to 1970 — at University College in history and at the law school. I played the piano for the UC Follies, served on the UC Lit, took part in the Harvard Exchange and helped to organize the teach-ins that brought U of T to the world's attention. What was striking about the period, as I look back on it now, was how like-minded everyone seemed to be. We all believed in the perfectibility of the human condition, in progressive change, in excellence, in equity as a consequence of reason and in our undisputed duty and right to participate. We were the kind of critics who believed that criticism carried with it the responsibility of putting back together that which we were taking apart. Absolutely nothing was beyond remedial attention. We were amateurs in cynicism and genuinely believed that the application of talent and hard work would open any door. In those days being a radical had the benign characteristics of opposing the war in Vietnam, believing in student participation in University governance and working in the paid labour force if you had a professional for a husband and pregnancy for a future.

Because we had the "right" answer for everything and held firm and sincere beliefs as to which end of the spectrum to invoke in declaring affiliation with "truth," we graduated positive, hopeful, feisty and somewhat ingenuous. There was more zeal than wisdom in our zealous wisdom, but at least there was zeal.

To go from the confidence of youth's certainty to the confidence of adult ambiguity is one of life's more humbling journeys, but along the way to acquiring less judgementalism, I think we also acquire more judgement. I now

know that the answer to most questions is closer to grey than it is to black or white and find myself in the paradoxical position of feeling that the more I understand and learn, the less I know. I still believe in perfectibility, excellence, equity and constructive contribution, but I am less sure that my definitions are universally shared or even that they should be. This makes me no less aggressive in their behalf but substantially less ideological in their idealistic defence.

I went into law because my father had been a lawyer in Europe. My father, after spending four years in concentration camp with my mother, after losing their son and his own parents and brothers, moved to Germany where my sister and I were born. We all came to Canada as Jewish

refugees in 1950 where my father's non-Canadian citizenship prevented him from applying for membership in the Ontario bar. But it did not prevent me from applying to be his self-designated replacement in the legal profession.

When I started practising in the very early 1970s, I did not know what feminism meant, let alone how to be a feminist. Having come from a strongly encouraging home and from a university environment where marks were the measure of achievement, I never questioned whether there were objective barriers to subjective ambitions. I never wondered why there were only 15 women called to the bar with me out of 520 lawyers, why some women worked and some stayed home, why people considered women professionals an oxymoron or why women were support staff and men those they were expected to support.



Rosalie Abella is chair of the Ontario Law Reform Commission.

Then came clients who told me, rivetingly, what novels could not — about dependency, disadvantage and despair. And so I learned to shed the orthodoxies of adolescence, to listen and to re-appraise. I learned not to give "how I manage" interviews to a public newly mesmerized by the apparent ease of professionally successful women but historically indifferent to the real "superwomen" who for generations had juggled jobs, family and guilt without benefit of housekeepers, financial security or media curiosity. I learned that the unspoken words of discouragement could be as thunderously inhibiting as the articulated ones. And I learned to take nothing for granted.

I see now how vigilant we must be in structuring society so that in pursuit of the good life (rightfully and understandably pursued) we remain constantly preoccupied with construction

they are entitled to stretch their expectations to the borders of their potential unhindered by arbitrary assumptions about their capacity or promotional entitlement is to display our confidence in the fullest possible participation of those previously excluded.

My goal is to see us progress so profoundly in expanding and humanizing the competition that the term "role model" will be rendered meaningless by the routine introduction of so many new players from the previously excluded category that the uniqueness of their participation will melt before their obvious right to belong in any position, institution or role dictated by their genuine and not their attributed capabilities. How uplifting to think that the day will come when no job will be considered non-traditional and no job considered traditionally inaccessible. Only then, I suggest, can we move beyond the rhetoric that pits stereotype against stereotype and get on with the rigorous application of our collective skills and talents to the problems that confront us. A debate about what women and minorities can, should or should not do may be an understandable legacy of our prior socialization, but surely it is time to move from the restrictive (and often hurtful) terminology toward a society that respects, accepts and accommodates the differences it had not previously understood.

**"The day will come
when no job will be considered
non-traditional and no job considered
traditionally inaccessible."**

of fairness for those with whom we make our community. In the pursuit of excellence to which university graduates declare allegiance, we must retain contact with the layers below the mind that connect to a human soul. In our commitment to scholarship and merit we must remember that the attribution of talent may sometimes be informed, or uninformed, by traditional or insensitive or irrelevant criteria that block our vision of true talent.

In the pursuit of participants in programs designed to enhance female or minority representation, for example, we must prevent ourselves from being seduced by the insulting assumption that somehow merit and representation are inconsistent. In the creation of heterogeneous ladders of opportunity, in the universities and elsewhere, we should remember that the best way to demonstrate to those who follow that

While I am proud of the way my generation has pried open its institutions and systems exponentially to women and minorities, I want the next generation to open the door all the way. I want it to see and listen before it defines (not the other way around) and, having defined, to implement with the courage to accept controversy and adversaries on the way to expanded tolerance. I want it to appreciate detractors almost as much as defenders and be able to take a certain amount of pride in who is in each category. The cost of controversy is antipathy, but the price of indifference is irrelevance.

Adapted from an address by Rosalie Abella at Convocation Hall upon her receipt of an honorary degree June 8, 1990.